SECURITY CLASSIFICATION OF THIS PAGE

AD-A260 714

REPORT DOCUMENTATIC

n Approved
B No. 0704-0188

DTIC ELECTE JAN 22 1993 S B D

1a. REPORT SECURITY CLASSIFICATION
UNCLASSIFIED

2a. SECURITY CLASSIFICATION AUTHORITY

2b. DECLASSIFICATION / DOWNGRADING SCHEDULE

3. DISTRIBUTION / AVAILABILITY OF REPORT
UNLIMITED

DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

4. PERFORMING ORGANIZATION REPORT NUMBER(S)

5. MONITORING ORGANIZATION REPORT NUMBER(S)

6a. NAME OF PERFORMING ORGANIZATION	6b. OFFICE SYMBOL (If applicable)	7a. NAME OF MONITORING ORGANIZATION
AMCCOM, Army	AMSMC-MAE-EA	

6c. ADDRESS (City, State, and ZIP Code)
Rock Island Arsenal
Rock Island, IL 61299-6000

7b. ADDRESS (City, State, and ZIP Code)

8a. NAME OF FUNDING / SPONSORING ORGANIZATION	8b. OFFICE SYMBOL (If applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER

8c. ADDRESS (City, State, and ZIP Code)

10. SOURCE OF FUNDING NUMBERS

PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.	WORK UNIT ACCESSION NO.

11. TITLE (Include Security Classification) Structured Analysis for the Logistic Support Analysis (LSA) Task and the Integrated Logistic Support (ILS) Element, "Structured Analysis - ILS Element E14, 'Support Management and Analysis'", (APJ 966-227).

12. PERSONAL AUTHOR(S)
DUCLOS, RONALD SHEPHERD, NED kmk

13a. TYPE OF REPORT	13b. TIME COVERED	14. DATE OF REPORT (Year, Month, Day)	15. PAGE COUNT
FINAL	FROM _____ TO _____	May 1989	65

16. SUPPLEMENTARY NOTATION

17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)
FIELD	GROUP	SUB-GROUP	STRUCTURED ANALYSIS, DATA STORES, LSA, LOGISTIC SUPPORT ANALYSIS, DATA FLOW DIAGRAMS, DFD, DATA FLOWS, EXTERNAL ENTITIES, PROCEDURES. over

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

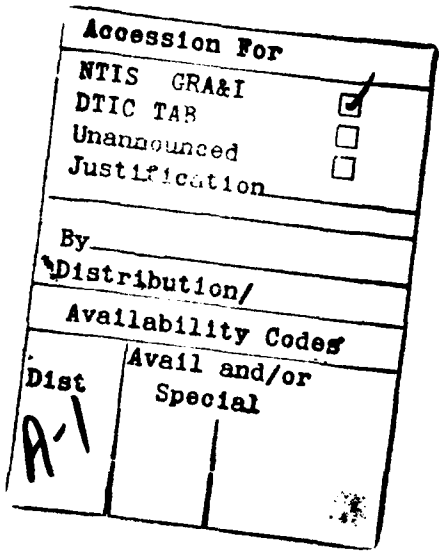
This report is one of a series presenting the Structured Analysis for the Logistic Support Analysis (LSA) Task and the Intergrated Logistic Support (ILS) Element. Included in this report is the System Analysis for the LSA Task and the ILS Element E14, "Support Management and Analysis", with the corresponding description of the processes, data flows, involved on each DFD. Also, an overview of the ILS Element analysis procedures, a guide to the overall support management and analysis considered as a prerequisite to a properly developed program, a brief overview of Structured Analysis and its place in the overall systems development process, as well as a brief working description of the Structured Systems Analysis Fundamentals.

20. DISTRIBUTION / AVAILABILITY OF ABSTRACT	21. ABSTRACT SECURITY CLASSIFICATION	
X UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS	UNCLASSIFIED	
22a. NAME OF RESPONSIBLE INDIVIDUAL	22b. TELEPHONE (Include Area Code)	22c. OFFICE SYMBOL
NED SHEPHERD	(309) 782-2479	AMSMC-MAE-EA

DD Form 1473, JUN 86 *Previous editions are obsolete.* SECURITY CLASSIFICATION OF THIS PAGE

18. PROCESSES, AUTOMATED, SYSTEM DESIGN, SUBSEQUENT PROGRAMMING, ILS ELEMENT E14, OVERALL SUPPORT MANAGEMENT AND ANALYSIS, ILS ELEMENT ASSESSMENT PROCEDURES, STRUCTURED SYSTEMS ANALYSIS FUNDAMENTALS, PROCESS FLOWS.

DTIC QUALITY INSPECTED 6



STRUCTURED ANALYSIS

ILS ASSESSMENT E-14

SUPPORT MANAGEMENT & ANALYSIS

APJ 966-227

APJ 966-227

STRUCTURED ANALYSIS

ILS ASSESSMENT

SUPPORT MANAGEMENT & ANALYSIS

under

CONTRACT DAAA21-86-D-0025

for

HQ US AMCCOM

INTEGRATED LOGISTIC SUPPORT OFFICE
AMSMC-LSP
ROCK ISLAND, IL

by

AMERICAN POWER JET COMPANY

RIDGEFIELD, NJ — FALLS CHURCH, VA

FT. EUSTIS, VA — ST. LOUIS, MO

May 1989

FOREWORD

APJ, under contract to HQs, AMCCOM, has initiated the automation of the LSA Tasks (MIL-STD-1388-1) and the assessment of the ILS elements (AR 700-127). A major goal is to unify military and contractor approach to the performance of ILS and LSA.

Detailed to meet all requirements of ILS and LSA, the automated process will continue to provide the flexibility in selecting tasks and elements to be addressed at each life cycle stage. A major advantage of this approach is to insure that application of each task element is consistent with prescribed Army policies and procedures.

This report is one of a series presenting the Structured Analysis of each LSA Task and ILS Element. Structured Analysis comprises a description of the process being automated in terms which facilitate system design and subsequent programming. It is increasingly the preferred approach in both industry and Government.

This Technical Note reports on the Data Flow Diagrams (DFDs) of ILS Element E14, "Support Management and Analysis", and provides definitions of the processes involved on each DFD (Annexes A and B). The report provides an overview of the ILS Element analysis procedures and a guide to the overall support management and analysis considered as a prerequisite to a properly developed program.

To view this work in context, this report also presents a brief overview of Structured Analysis and its place in the overall systems development process. Additionally, Annex C provides a brief working description of the Structured Systems Analysis fundamentals. The overview and certain portions of the introductory text are repeated verbatim in every report in this series so that each one can stand alone.

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STRUCTURED ANALYSIS - ILS REVIEW ELEMENT E14
SUPPORT MANAGEMENT AND ANALYSIS

INTRODUCTION

PURPOSE

The purpose of this report series is to present the results of the APJ efforts under Contract DAAA21-86-D-0025 for coordination with the AMCCOM Program Manager prior to in-depth structured design of ILS and LSA functions and processes. "Support Management and Analysis", (ILS Review Element E14), is addressed in this report.

BACKGROUND

The Department of the Army has a requirement for management control over contractor and Government agency response to the requirements of AR 700-127, "Integrated Logistic Support", and MIL-STD-1388-1, "Logistic Support Analysis". HQs AMCCOM has initiated action to structure each of the LSA tasks, the assessment of each ILS element, the form of the results, and the detailed processes to insure consistency with current Army policies, procedures, and techniques.

This approach (undertaken by AMCCOM and APJ) will insure uniformity in efforts and products, reproducibility of analyses, and a well-defined structure which can be coordinated among all participants in the logistic process to arrive at common understanding and procedures.

SCOPE

This report summarizes the results of the Structured Systems Analysis of Support Management and Analysis, ILS Review Element E14 and presents the associated Data Flow Diagrams (DFDs) developed from the Structured Analysis. The portions of the Data Dictionary relating to labels, names, descriptions, processes, data flows, data stores, and external entities are included in their present degree of completeness. (The Data Dictionary is a "living document" that evolves through the analysis and design process).

To place this work in context, this report presents a brief overview of Structured Analysis and its place in the overall systems design process to assist the reader who may not be fully briefed on the symbols and conventions used. It is supported by Annex C, which defines each element in structured analysis, and a glossary.

ILS REVIEW ELEMENT E14 DESCRIPTION

ILS Review Element E14 concerns the review of the support management and analysis proposals for the developmental or product improvement program. There are 20 major subject areas addressed under E14 in AR 700-127 UPDATE, dated 1 March 1988:

1. ILS plan
2. Sample data collection
3. Test data/evaluation
4. Coordination of testing requirements/location
5. LSA
6. LSA strategy and results
7. LSAR
8. Requirements documents
9. Configuration management
10. Solicitation document
11. LSA documentation
12. Test and evaluation plans/data integration
13. Logistic demonstration plan
14. Support transition plan
15. Post-fielding plan
16. ISP
17. Warranty consideration or utilization
18. Post-production support planning
19. Logistic evaluation
20. ILS/MANPRINT integration

It is recognized that there is a degree of overlap in several of these areas. Accordingly, the overall assessment area of support management and analysis was reviewed relative to the major areas of interest which should be addressed in a new development program or in a product improvement program (PIP). These may be summarized as:

1. Program planning
2. System requirements documents
3. BOIP/QQPRI planning
4. Test Planning
5. Solicitation documents
6. ILS evaluation plan

Following completion of the draft DFDs, the diagrams and data dictionary are made available to working Army logisticians currently (or recently) directly involved in the application of the same LSA tasks in current Army development programs. Comments are solicited relative to the logic of the processes described, the scope and details of the indicated approaches, and the outputs implied by the LSA task requirements.

Earlier draft products were well received by the external reviewers, and requests have been made for copies of the DFDs for in-house use in organizing ILS and LSA efforts. Comment was also received that the DFDs will be a useful training tool for apprentice logisticians, since they provide an overall picture of the total task and a uniform approach to its fulfillment.

STRUCTURED ANALYSIS AND DESIGN

Structured Analysis and Structured Systems Design evolved from the need to define and demonstrate the underlying logical functions and requirements of large systems. The concept of Structured Analysis involves building a logical (non-physical) model of a system, using graphic techniques which enable users, analysts, and designers to get a clear and common picture of the system and how its parts fit together to meet the user's needs. It is followed by structured design, and then by programming, and test and validation. Annex C provides a brief description and guide to the fundamentals of a Structured Systems Analysis.

The Structured Analysis and Structured Systems Design process, sometimes referred to as "Structured Systems Analysis and Design (SSAD)", is well documented and widely utilized in Government and industry.

As stated in "The Practical Guide to Structured Systems Design" (Meilir Page-Jones, Prentice-Hall, Englewood Cliffs, NJ, 1980):

..."Structured Design is disciplined approach to computer system design, an activity that in the past has been notoriously haphazard and fraught with problems.

"1. Structured Design allows the form of the problem to guide the form of the solution.

"2. Structured Design seeks to conquer the complexity of large systems by means of partitioning the system into "black boxes," and by organizing the black boxes into hierarchies suitable for computer implementation.

"3. Structured Design uses tools, especially graphic ones, to render systems readily understandable.

"4. Structured Design offers a set of strategies for developing a design solution from a well defined statement of a problem.

"5. Structured Design offers a set of criteria for evaluating the quality of a given design solution with respect to the problem to be solved.

"Structured Design produces systems that are easy to understand, reliable, flexible, long lasting, smoothly developed, and efficient to operate - and that WORK...."

The organization of Structured Analysis and its relationship to Structured System Design is shown on Figure 1.

ILS REVIEW ELEMENT E14 - SUPPORT MANAGEMENT AND ANALYSIS - DATA FLOW DIAGRAMS

The Data Flow Diagram is a tool that shows flow of data, i.e., data flows from sources and is processed by activities to produce intermediate or final products.

The DFD provides a useful and meaningful partitioning of a system from the viewpoint of identification and separation of all functions, actions, or processes so that each can be introduced, changed, added, or deleted with minimal disruption of the overall program, i.e., it emphasizes the underlying concept of modularity and identifiable transformations of data into actionable products.

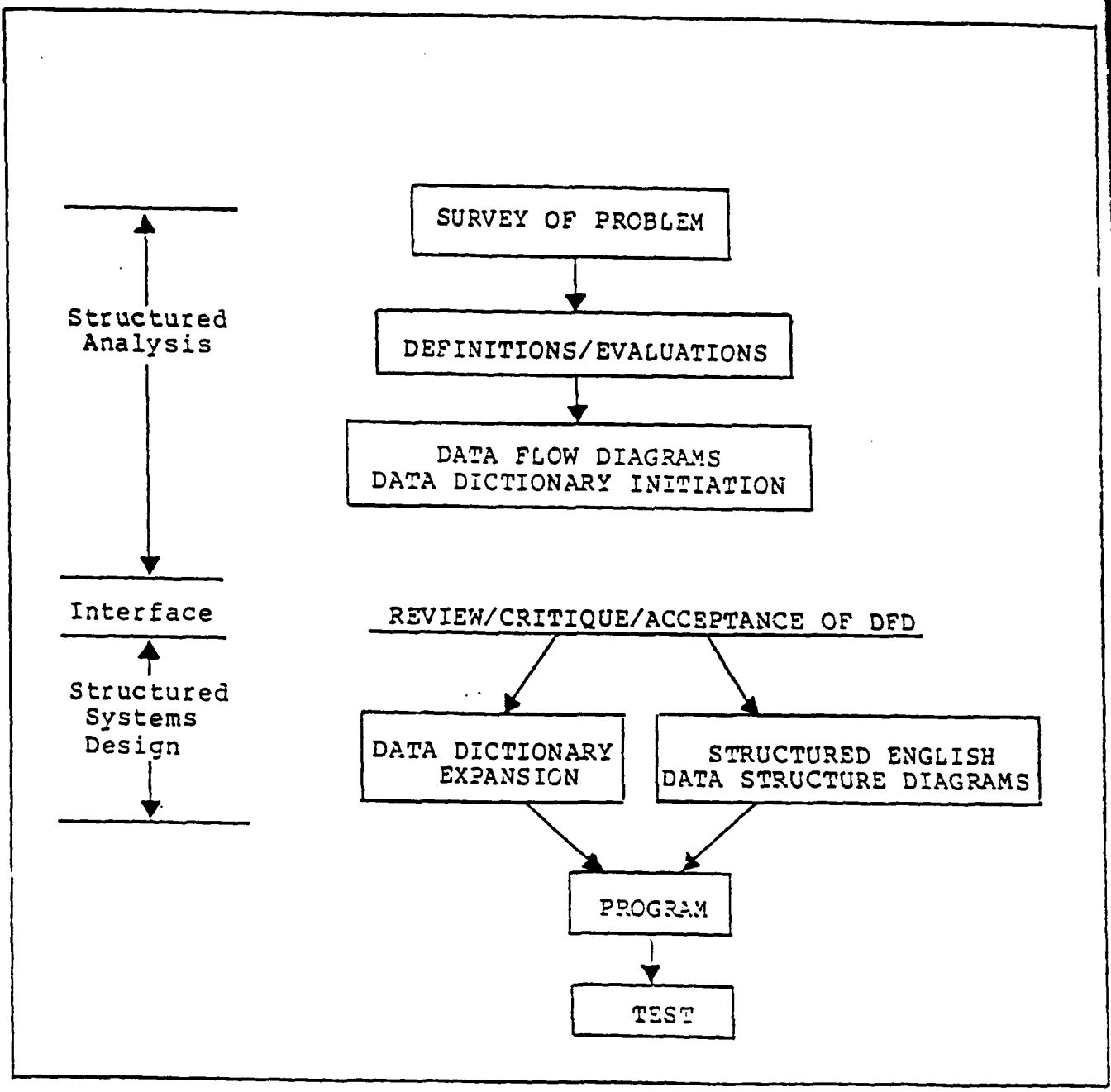


Figure 1. Structured Analysis and Structured Systems Design Organization

A series of sixteen (16) DFDs have been developed to structure the ILS E14 subtasks:

		Title
1.	E14.1	Support Management & Analysis - Top Level
2.	E14.1A	Program Planning
3.	E14.1A1B	ILS Plan
4.	E14.1A2B	Configuration Management Planning
5.	E14.1A3B	Organizational & Operational (O&O) Plan
6.	E14.1A4B	Post Production Planning
7.	E14.1A5B	Required Operational Capability (ROC)
8.	E14.1A6B	Contractor Integrated Support Plan (ISP)
9.	E14.1A7B	ILS/MANPRINT Integration
10.	E14.1A8B	Support Transition Plan
11.	E14.1A9B	Post Fielding Plan
12.	E14.2A	System Requirements Documents
13.	E14.3A	BOIP/QQPRI Planning
14.	E14.4A	Test Planning
15.	E14.5A	Solicitation Documents
16.	E14.6A	ILS Evaluation Plan

Each DFD is keyed to the specific task (ILS Element in this case) through the identification number assigned in the lower right hand box. The Alpha codes indicate the level of indenture or explosion below the top level, i.e.,:

Top Level.....ILS DFD E14.1
First Indenture.....ILS DFD E14.1A
Second Indenture....ILS DFD E14.1A1B

Each DFD makes reference to the basic ILS element it addresses, as well as the level of indenture (explosion) of the DFD. For example, the first or top level DFD, "E14", refers to the section in AR 700-127 which describes the review items. One of the processes (bubbles) on the top level diagram (E14.1) is expanded and identified as "E14.1A", a second level of E14 (Alpha "A" indicates the second level).

In turn, DFD E14.1A has a process (bubble) E14.1A1, "Procurement", which is further exploded on DFD E14.1A1B, a third level explosion of the basic DFD E14 (Alpha "B" indicates the third level explosion).

Four standard symbols are used in the DFD drawing (see Figure 2).

A copy of each DFD is presented in Annex B, accompanied by the Data Dictionary process elements. Each entry made in the DFDs has a corresponding entry in the Data Dictionary, immediately following each of the DFDs.

This Technical Note presents only those Data Dictionary entries necessary for the coordination of the overall concept and details of the processes. To facilitate review of the diagrams, data flow identifications, process, and data store descriptions are provided. As noted above, they will continue to evolve and be expanded in the System Design phase.

As the DFDs progress through Structured System Design, the Data Dictionary will continue to be expanded and completed. Since they are working documents rather than final submissions, only minimum effort has been devoted to editorial niceties, e.g., spelling, typography, etc.

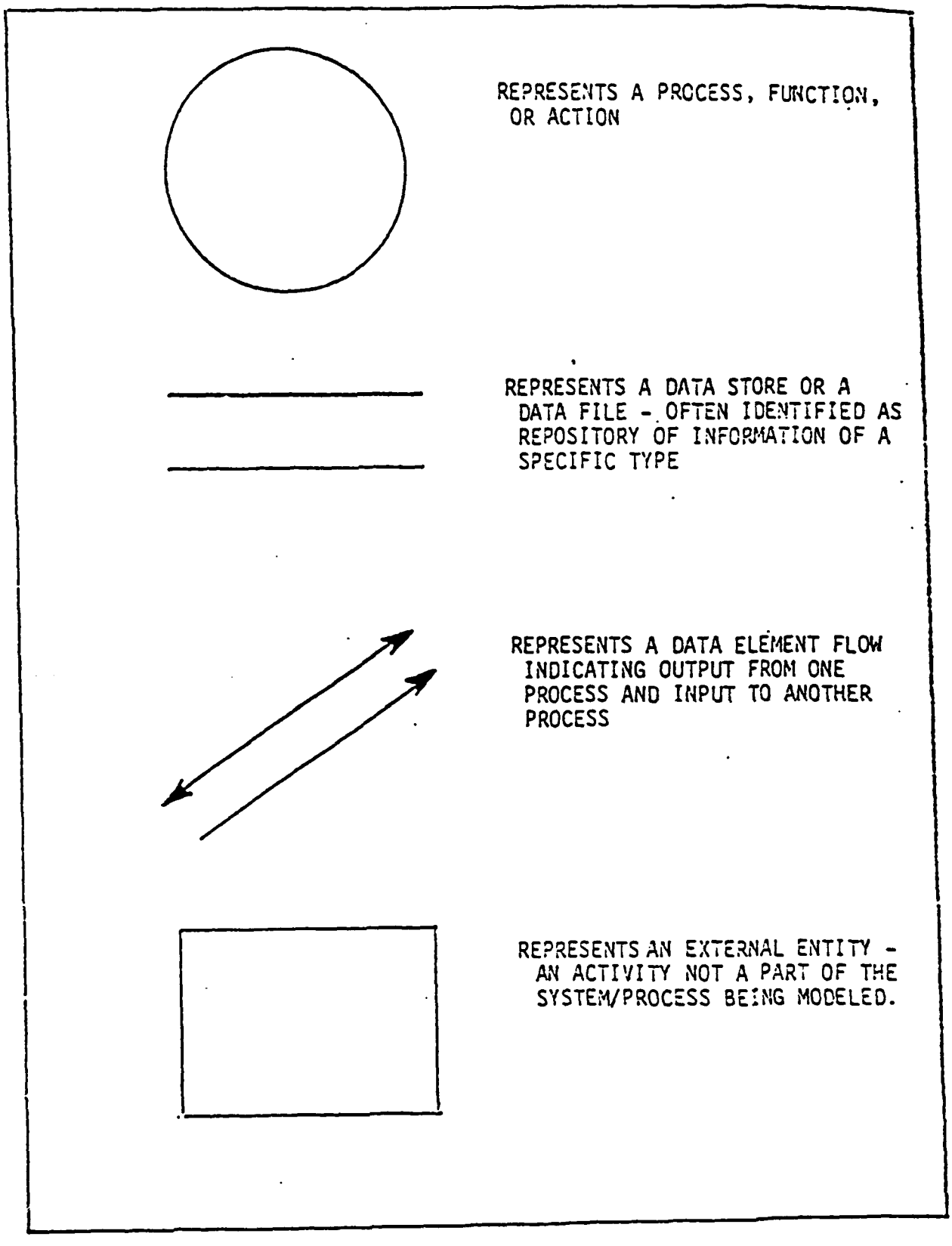


Figure 2. STANDARD DFD SYMBOL DEFINITIONS

ANNEX A

ILS ELEMENT E14 - SUPPORT MANAGEMENT AND ANALYSIS

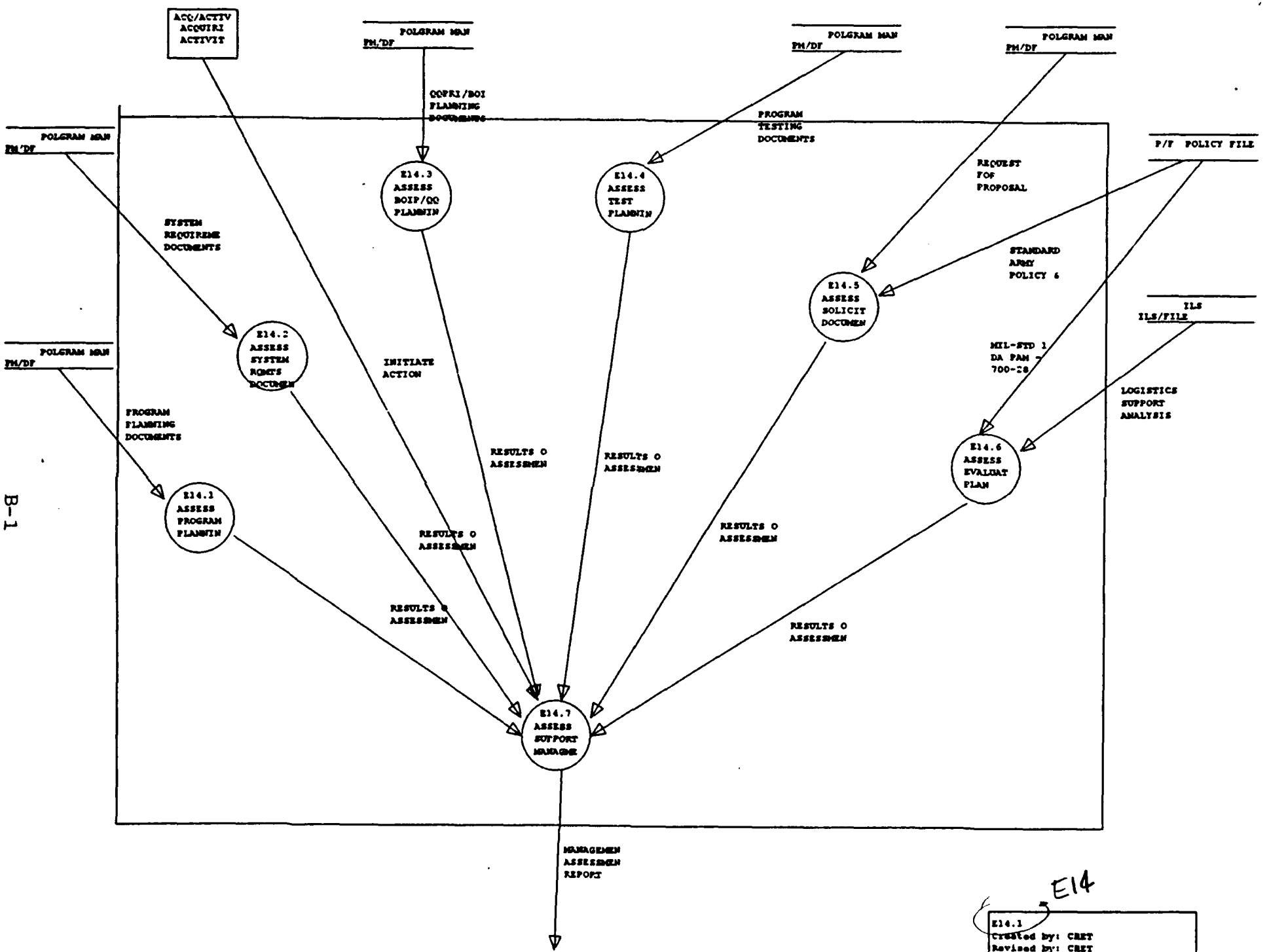
DESCRIPTION

Many of the specific subject areas in this ILS element are addressed in much greater detail in other ILS element assessments. It is the objective of this ILS assessment element to provide an overview of the general area to ensure that all assessment areas have been addressed to assure that necessary program management document has been prepared and coordinated with ILS program participants, and to provide a forum for the integration of the various ILS element assessment into a single focal point.

ANNEX B

STRUCTURED SYSTEMS ANALYSIS

SUPPORT MANAGEMENT AND ANALYSIS
DATA FLOW DIAGRAMS AND RELATED DATA DICTIONARY



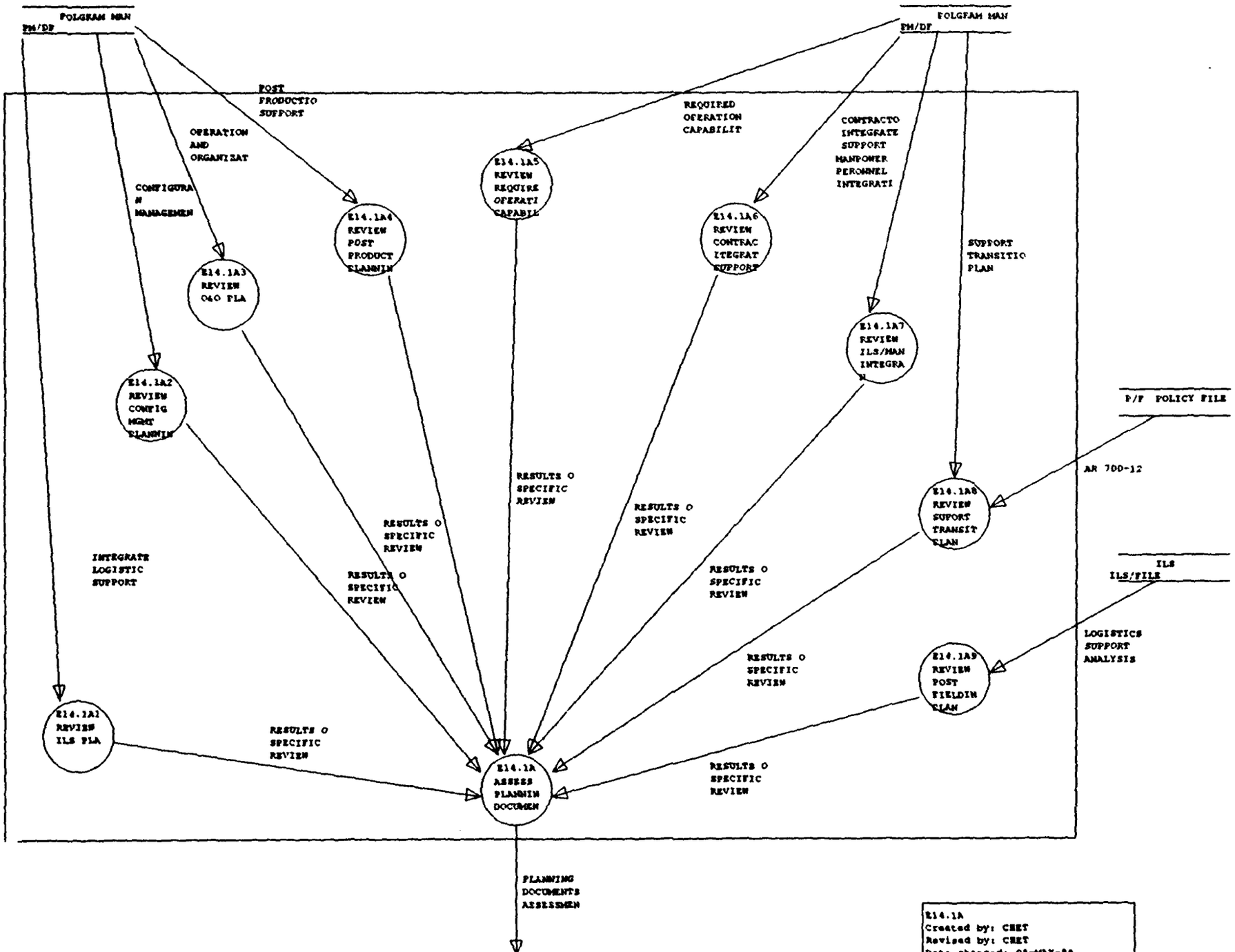
B-1

E14

E14.1
Created by: CRET
Revised by: CRET
Date changed: 10-MAY-89

ACQUISITION MANAGEMENT

Name	Label	Description
E14.1	ASSESS PROGRAM PLANNING	THE PURPOSE OF THIS PROCESS IS TO ENSURE ALL SUPPORTABILITY AND SUPPORTABILITY RELATED DATA IS INCLUDED IN ALL PROGRAM MANAGEMENT PLANNING. THE DATA GLEANED FROM THIS PROCESS WILL BE USED TO DEVELOP THE SUPPORT MANAGEMENT ASSESSMENT REPORT (E14.7). SEE FURTHER DETAILS IN THE EXPLOSION OF THIS PROCESS (E14.1A)
E14.2	ASSESS SYSTEM RQMTS DOCUMENTS	THE PURPOSE OF THIS PROCESS IS TO ENSURE ALL SYSTEM REQUIREMENTS DOCUMENTS HAVE CONSIDERED AND ADDRESSED ALL ILS ELEMENTS AND ADDRESSES ALL SUPPORTABILITY AND SUPPORTABILITY RELATED FACTORS.
E14.3	ASSESS BOIP/QQPRI PLANNING	THE PURPOSE OF THIS PROCESS IS TO ENSURE ADEQUATE BOIP/QQPRI PLANNING IS INITIATED EARLY IN THE ACQUISITION PHASE TO SUPPORT THE NEW SYSTEM.
E14.4	ASSESS TEST PLANNING	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE SYSTEM TEST PLANNING TO ENSURE THE TESTS POSTULATED MAKES PROVISIONS FOR VERIFICATION AND VALIDATION OF ALL ILS ELEMENT PROJECTIONS AND WILL PROVIDE DATA REQUIRED TO UPDATE THE ILSP TO INCLUDE THE LATEST TEST FINDINGS. FURTHER DETAILED INFORMATION IS PROVIDED IN EXPLOSION, E14.4A. DATA SOURCE AR 700-127
E14.5	ASSESS SOLICITATION DOCUMENTS	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE SOLICITATION DOCUMENTS TO ENSURE ALL ELEMENTS AND ISSUES ARE ADDRESSED i.e., MANPOWER, READINESS, SUPPORTABILITY, COST AND SCHEDULE. FURTHER INFORMATION IS PROVIDED IN EXPLOSION E14.5A.
E14.6	ASSESS ILS EVALUATION PLAN	THE PURPOSE OF THIS PROCESS IS TO ASSESS THE ILS EVALUATION PLANNING TO ENSURE A PROCEDURE HAS BEEN DEVELOPED TO EVALUATE THE PROGRESS OF THE ILS PROGRAM AND THAT THE PROCESS DEFINES SPECIFIC CRITERIA TO BE USED TO EVALUATE EACH ILS ELEMENT DURING EACH PHASE OF THE ACQUISITION AND DEVELOP AN OVERALL EVALUATION ASSESSMENT REPORT.
E14.7	ASSESS SUPPORT MANAGMENT	THIS PROCESS WILL ASSESS THE OVERALL SUPPORT MANAGEMENT PROCESS AND DEVELOP AN ASSESSMENT REPORT.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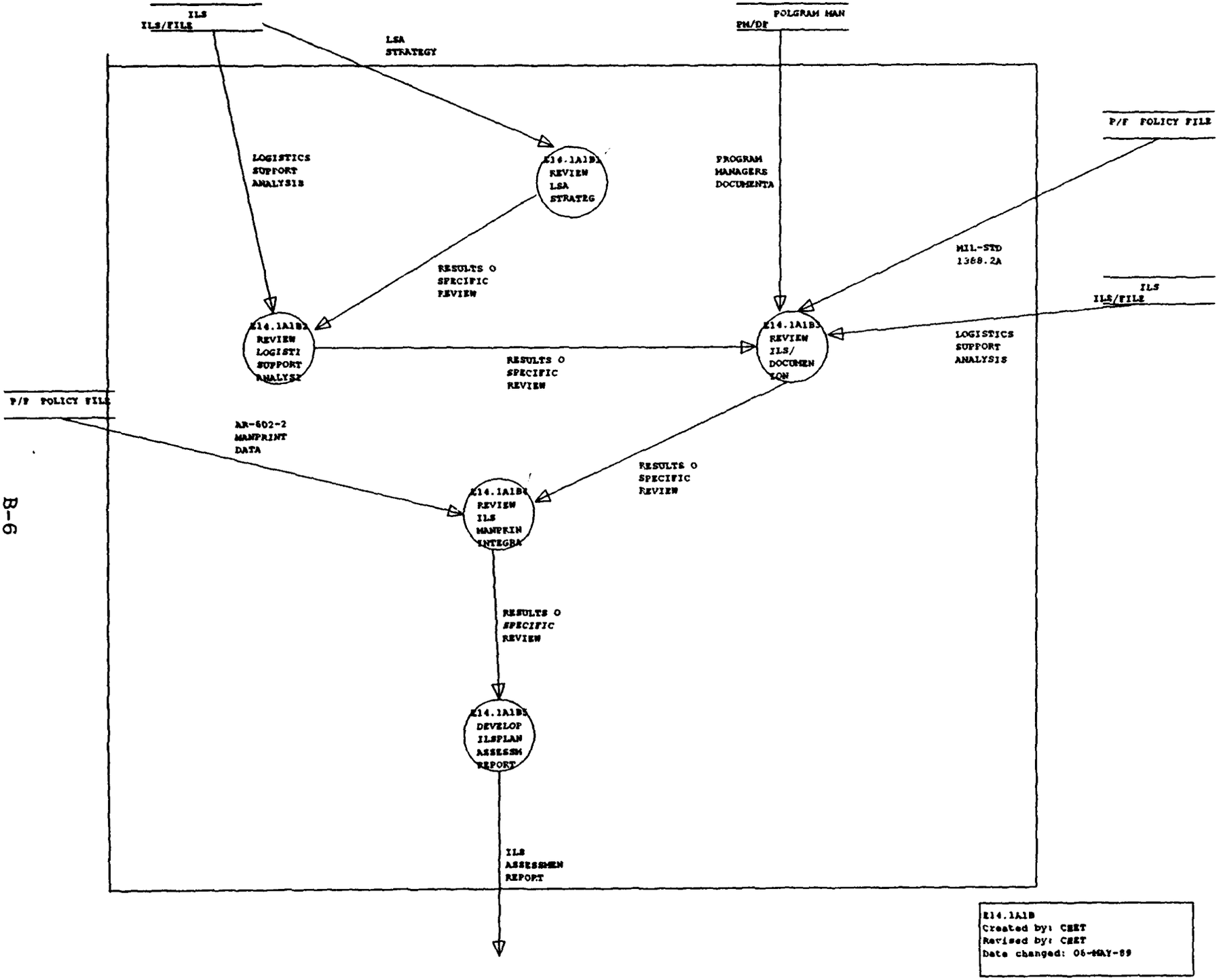
Revised by: CHET
Date changed: 08-MAY-89

Name	Label	Description
E14.1A	ASSESS PLANNING DOCUMENTS	THIS PROCESS WILL USE THE DATA DEVELOPED DURING THE ACCOMPLISMENT OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM TO DEVELOP AN ASSESSMENT REPORT COVERING THE OVERALL PLANNING DOCUMENTATION AS IT PERTAINS TO THE INTEGRATED LOGISTIC SUPPORT SYSTEM REQUIREMENTS.
E14.1A1	REVIEW ILS PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE ILSP TO ENSURE IT CONTAINS ALL THE REQUIREMENTS OF AR 700-127 AND IN THE FORMAT SET FORTH IN DA PAM 700-55 AND THAT THE PLAN HAS BEEN APPROVED AND DISTRIBUTED TO ALL INTERFACING ACTIVITIES, AND ILS FUNDS HAVE BEEN ALLOCATED. FURTHER DETAIL INFORMATION IS PROVIDED IN EXPLOSION E14.1A1B. DATA SOURCE: AR 700-127, DA PAM 700-55
E14.1A2	REVIEW CONFIG MGMT PLANNING	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE CONFIGURATION MANAGEMENT PLANNING TO ENSURE THE CONFIGURATION SYSTEM IS CAPABLE OF TRACKING THE CONFIGURATION OF THE SYSTEM THROUGH THE LIFE CYCLE AND PROVISIONS ARE MADE FOR AN ILS IMPACT ANALYSIS TO BE PERFORMED AND THE RESULT INCLUDED IN THE DATA PACKAGE SUBMITTED WITH EACH ENGINEERING CHANGE PROPOSAL. FURTHER DETAILED INFORMATION IS PRESENTED IN EXPLOSION E14.1A2B. DATA SOURCE: AR 70-37, MIL-STD 1456.
E14.1A3	REVIEW O&O PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE O&O PLAN TO ENSURE THE PLAN HAS BEEN PREPARED, COORDINATED, AND APPROVED ACCORDING TO AR 71-9, DESCRIBING HOW THE SYSTEM WILL BE INTEGRATED INTO THE FORCE STRUCTURE, DEPLOYED, OPERATED, AND SUPPORTED AND TO ENSURE APPROPRIATE LOGISTICS RELATED TENATIVE RELIABILITY, DURABILITY, SUPPORTABILITY, MANPOWER, AND COST REQUIREMENTS CONSISTANT WITH AVAILABLE CURRENT TECHNOLOGY AND THE SRO (PEASETIME AND WARTIME) HAVE BEEN ESTABLISHED BASED ON THE AVAILABLE TECHNOLOGY THAT INDICATES THE LEAST RISK AND THE THREAT THAT MUST BE COUNTERED. DATA SOURCE: AR 702-3 AR 700-127, AR 70-1.
E14.1A4	REVIEW POST PRODUCTION PLANNING	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE POST PRODUCTION PLANNING TO INSURE POTENTIAL POST PRODUCTION SUPPORT PROBLEMS WILL BE IDENTIFIED AND ADDRESSED. REPROCUREMENT PROBLEMS, CLOSING OF PRODUCTION LINES, OBSOLESCENSE OF DESIGN, MUST BE ADDRESSED IN THE PLAN AND IF ANY OF THESE FACTORS POSE A PROBLEM THE PLAN MUST STATE HOW THESE PROBLEMS WILL BE SOLVED TO ENSURE AN ADEQUATE SUPPLY OF SPARE AND REPAIR PARTS WILL BE MADE AVAILABLE AND THAT EFFECTIVE LIFE CYCLE SUPPORT WILL BE AVAILABLE FOR THE NEW SYSTEM. FURTHER DETAILED INFORMATION IS AVAILABLE IN EXPLOSION E14.1A4B. DATA SOURCE: AR 700-127, DA PAM 700-55.
E14.1A5	REVIEW REQUIRED OPERATION CAPABILITY (ROC)	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE ROC TO ENSURE THE REQUIRED OPERATIONAL CAPABILITY IS CONSISTANT WITH THE O&O PLAN, SRO, ARMY DOCTRINE, ORGANIZATION, FORCE STRUCTURE, CURRENT TECHNOLOGY, AND SAFETY CONSIDERATIONS AND THAT THE ROC HAS BEEN PREPARED, COORDINATED, AND APPROVED IN ACCORDANCE WITH AR 71-9, TO INCLUDE APPROPRIATE LOGISTIC PROVISIONS AND RAM RATIONAL ANNEX. FURTHER INFORMATION IS PROVIDED IN EXPLOSION E14.1A5B. DATA SOURCE: AR 71-9

Name	Label	Description
E14.1A6	REVIEW CONTRACTOR ITEGRATED SUPPORT PLAN (ISP)	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE CONTRACTORS ISP TO ENSURE IT IS CONSISTANT WITH THE ILSP AND THAT IT IS TAILORED TO THE ACQUISITION SCHEDULE, ILS STRATEGY AND TYPE ACQUISITION AND MEETS THE REQUIREMENTS OF MIL-STD- 1365A AND DA PAM 700-55 ,AND AR 700-127. FURTHER DETAILED INFORMATION IS REFLECTED IN EXPLOSION E14.1A6B.
E14.1A7	REVIEW ILS/MANPRN INTEGRATIO N	THE PURPOSE OF THIS PROCESS IS TO INSURE ILS/MANPRINT PROCESSES ARE MUTUALLY SUPPORTING AND ARE INTEGRATED IN THE MATERIEL DEVELOPMENT AND ACQUISITION PROGRAM AND INSURE THE FOLLOWING AREAS ARE ADDRESSED, HUMAN FACTORS ENGINEERING, MANPOWER, PERSONNEL, TRAINING, SYSTEM SAFETY, AND HEALTH HAZARDS. FURTHER INFORMATION IS AVAILABLE IN EXPLOSION E14.1A7B. DATA SOURCE: AR 700-127, AR 602-2
E14.1A8	REVIEW SUPORT TRANSITION PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE SUPPORT TRANSITION PLAN TO ENSURE A SMOOTH TRANSITION TO ORGANIC SUPPORT AND TO ENSURE THAT MINIMUM INITIAL STOCKS OF SUPPORT ITEMS AND ASSOCIATED TECHNICAL DOCUMENTATION ARE AVAILABLE AT THE USING ORGANIZATION AND AT THE MAINTENANCE AND SUPPLY ACTIVITIES AND THAT ALL MANPOWER AND PERSONNEL REQUIRED TO OPERATE AND SUPPORT THE SYSTEM AND MEET STATED AVAILABILITY OR SYSTEMS READINESS OBJECTIVE ARE ASSIGNED TO AND AVAILABLE AT THE USING ACTIVITY. FURTHER DETAILED INFORMATION IS AVAILABLE IN EXPLOSION E14.1A8B. DATASOURCE: AR 700-127, DA PAM 700-55, AR 700-18.
E14.1A9	REVIEW POST FIELDING PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE POST FIELDING ASSESSMENT PLANNING TO ENSURE THE PLANNING INCLUDES THE IMPLEMENTATION OF A DATA COLLECTION SYSTEM THAT WILL PROVIDE RELIABLE DATA TO ASSESS THE DEGREE OF ADEQUACY OF THE INTEGRATED LOGISTIC SUPPORT SYSTEM AND TO DETERMINE IF THE SYSTEM HAS ATTAINED THE PROJECTED OPERATIONAL AND LOGISTIC GOALS AND THRESHOLDS. DATA SOURCE: AR 700-127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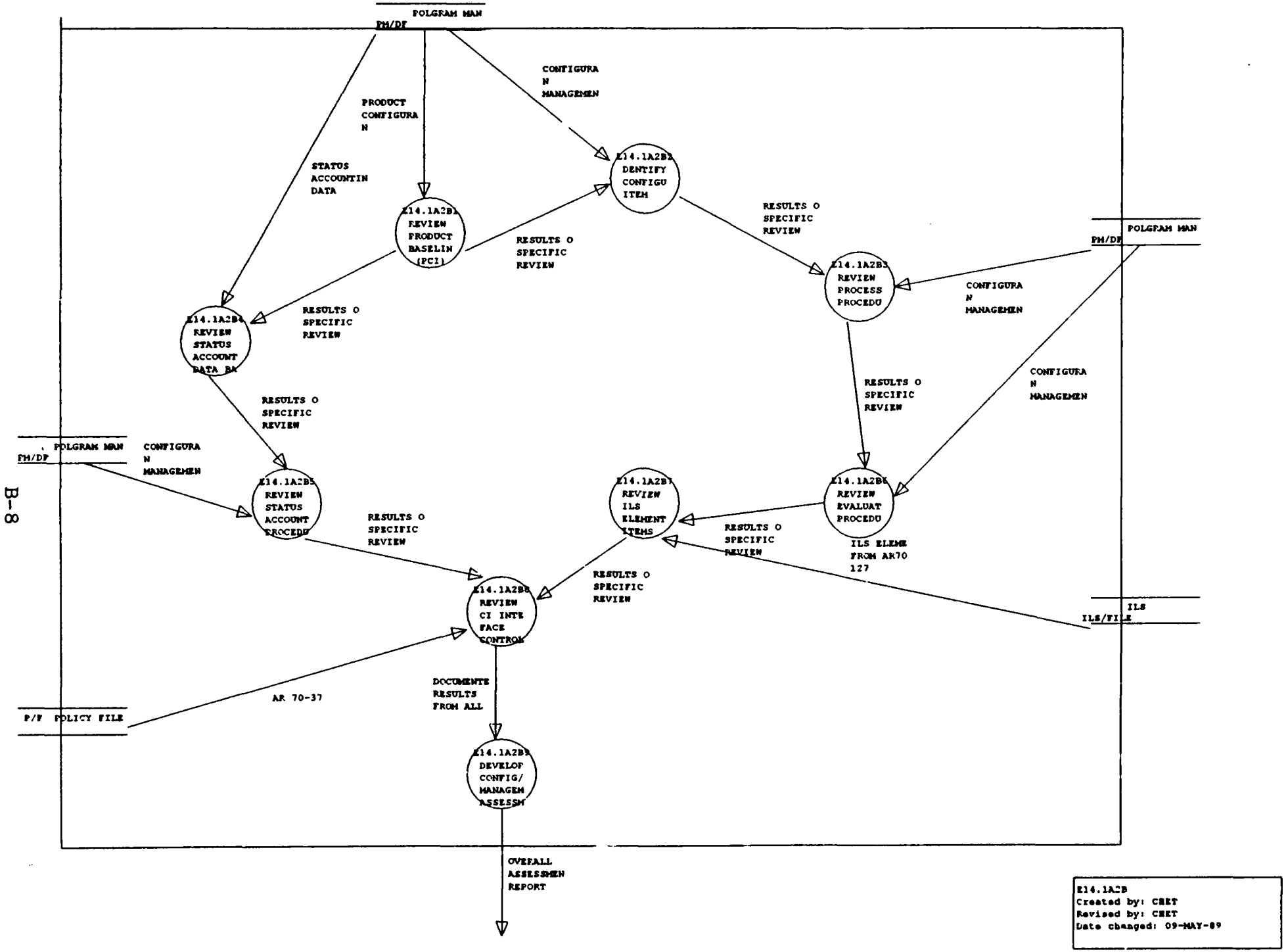
Created by: CSET
Revised by: CSET
Date changed: 06-MAY-89

Name	Label	Description
E14.1A1B1	REVIEW LSA STRATEGY	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE LSA STRATEGY TO ENSURE THE STRATEGY IS CONSISTANT WITH THE TYPE ACQUISITION AND ALL LOGISTIC TASKS DEFINED IN MIL-STD 1388.1A THAT ARE RELATIVE, ARE SCHEDULED FOR ACCOMPLISHMENT TO MEET THE ACQUISITION SCHEDULE MILESTONES. ENSURE THE STRATEGY IDENTIFIES WHAT HAS TO BE DONE WHEN IT HAS TO BE DONE AND WHO IS RESPONSIBLE FOR DOING IT. ALSO, A COST ESTIMATE TO ACCOMPLISH EACH RECOMMENDED TASK SHOULD BE PROVIDED. DATA SOURCE: MIL-STD-1388.1A TASK 101
E14.1A1B2	REVIEW LOGISTIC SUPPORT ANALYSIS PLAN(LSAP)	THE PURPOSE OF THIS REVIEW IS TO ENSURE THAT THE LOGISTIC SUPPORT ANALYSIS PLAN IDENTIFIES AND INTERGRATES ALL LSA TASKS, MANAGEMENT RESPONSIBILITIES, AND ACTIVITIES AND OUTLINES THE APPROACH TOWARD THE ACCOMPLISHMENT OF ANALYSIS TASKS TO MEET THE ACQUISITION SCHEDULE. ENSURE THE LSAP IS TAILORED TO THE ACQUISITION STRATEGY, AND LSA RESOURCES HAVE BEEN IDENTIFIED. DATA SOURCE: MIL-STD-1388.1A TASK 102
E14.1A1B3	REVIEW ILS/ DOCUMENTATION	THE PURPOSE OF THIS PROCESS IS TO ENSURE THE LSA DOCUMENTATION MEETS THE REQUIREMENTS OF AR-700-127 AND MIL-STD-1388.2A AND TO ENSURE THE DATA RECORD "A's" CONSOLIDATE ALL PERTINENT INFORMATION RELATIVE TO THE ANTICIPATED OPERATIONS OF THE SYSTEM, THE ENVIRONMENT IN WHICH THE SYSTEM WILL BE OPERATED AND MAINTAINED AND THE SYSTEM MAINTENANCE REQUIREMENTS WHICH MUST BE MET. DATA SUORCE: MIL- STD -1388.1A TASK 102 AND 401.
E14.1A1B4	REVIEW ILS MANPRINT INTEGRATION	THE PURPOSE OF THIS PROCESS IS TO ENSURE ALL ELEMENTS OF ILS ARE CONSIDERED IN THE MANPRINT ANALYSIS AND MANPOWER/PERSONELL ESTIMATES ARE REALISTIC AND SUFFICIENT TO SUPPORT AND OPERATE THE SYSTEM IN IT'S INTENDED OPERATIONAL ENVIRONMENT. ENSURE MANPOWER GOALS & THRESHOLDS HAVE BEEN COMPARED TO A CONTEMPORARY BASELINE SYSTEM AND SIGNIFICANT DIFFERENCES HAVE BEEN EXPLAINED, CONSIDERING DESIGN, SUPPORT CONCEPT, AND EMPLOYMENT OBJECTIVES. DATA SOURCE: AR 602-2, AR 700-127, DA PAM 700-55
E14.1A1B5	DEVELOP ILSPLANNIN ASSESSMENT REPORT	THIS PROCESS WILL CONSOLIDATE THE RESULTS OF THE OTHER PROCESSES OF THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSMENT REPORT OF THE ADEQUACY OF THE ILS PLANNING TO ENSURE ALL ELEMENTS OF ILS HAVE BEEN ADDRESSES AND PROJECTED COSTS ARE COMMENSURATE WITH THE IDENTIFIED TASKS TO BE ACCOMPLISHED. DATA SOURCE; AR 700-127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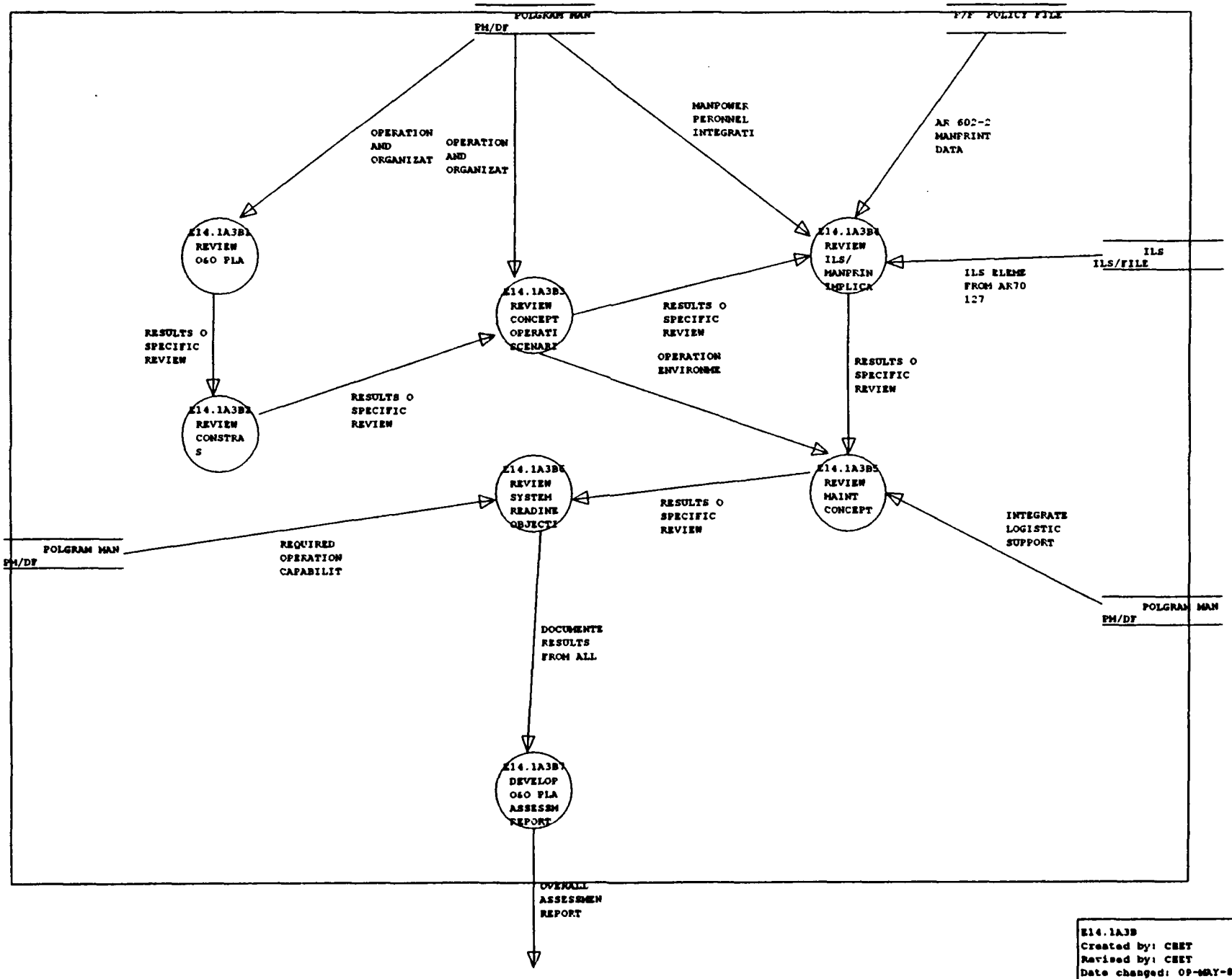
Created by: CHET
Revised by: CHET
Date changed: 09-MAY-89

Name	Label	Description
E14.1A2B1	REVIEW PRODUCT BASELINE (PCI)	THE PURPOSE OF THIS PROCESS IS TO ENSURE THAT THE PRODUCT CONFIGURATION IDENTIFICATION (PCI) /PRODUCT BASE LINE IS REPRESENTATIVE OF THE RESULTS OF THE PHYSICAL CONFIGURATION AUDIT, AND THE DOCUMENTATION IS DETAILED ENOUGH TO BE USED TO PRESCRIBE NECESSARY "BUILD-TO OR FORM, FIT AND FUNCTION REQUIREMENTS FOR THE CI AND THE ACCEPTANCE TESTS FOR THESE REQUIREMENTS. THE TYPE AND LEVEL OF DETAIL TO BE CONTAINED IN THE ?CI SHOULD BE DETERMINED BY CONSIDERING REQUIREMENTS FOR ANTICIPATED METHOD OF PROCUREMENT, FOR CONFIGURATION AUDITS, AND FOR LOGISTIC SUPPORT OF POTENTIALLY REPAIRABLE ITEMS WHICH ARE PART THE CI. DATA SOURCE AR 70-37, MIL- STD-1456.
E14.1A2B2	DENTIFY CONFIGURED ITEM	THIS PROCESS REVIEWS THE PROCEDURES DEVELOPED TO IDENTIFY THE CONFIGURATED ITEM AND THE PROCESS BY WHICH THE ITEM IS TRACKED THROUGH THE STATUS ACCOUNTING SYSTEM. DATA SOURCE AR 70-37
E14.1A2B3	REVIEW ECP PROCESSING PROCEDURES	THE PURPOSE OF THIS PROCESS IS TO ASSURE THAT THE CONTRACTOR AS WELL AS INHOUSE ENGINEERING CHANGE PROPOSALS (ECPs) ARE PREPARED IN ACCORDANCE WITH MIL-STD-480 OR MIL-STD-481. MIL-STD-480 REQUIRES A COMPLETE ANALYSIS OF THE IMPACT IF THE ENGINEERING CHANGE DESCRIBED BY THE ENGINEERING CHANGE PROPOSAL WERE *IMPLEMENTED. THIS REVIEW SHOULD* CONSIDER THE VALIDITY OF THE PROCEDURES USED TO ENSURE THAT THE PACKAGE SUBMITTED WITH THE ENGINEERING CHANGE PROPOSAL CONTAINS A DESCRIPTION OF ALL KNOWN INTERFACE EFFECTS AND INFORMATION CONCERNING CHANGES IN THE FUNCTIONAL/PRODUCT BASELINES. THE MAIN THRUST OF THIS REVIEW SHOULD BE THE SUPPORTING DATA OUTLINING THE IMPACT UPON INTEGRATED LOGISTIC SUPPORT AND OVERALL ESTIMATED COST IMPACT. THIS REVIEW WILL INCLUDE THE CONFIGURATION CONTROL BOARD PROCEDURES AND PROCESSES TO ENSURE ALL ELEMENTS OF ILS ARE UNDERSTOOD AND CONSIDERED PRIOR TO ECP APPROVAL. DATA SOURCE: AR 70-37
E14.1A2B4	REVIEW STATUS ACCOUNTING DATA BASE	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE CONFIGURATION STATUS ACCOUNTING SYSTEM DATA BASE TO ENSURE THAT THE DATA BASE IS CAPABLE OF HANDLING ALL STATUS RECORDS THAT WILL BE PREPARED TO RECORD ALL ESTABLISHED BASELINES OF FORMALLY RELEASED CONFIGURATIONS AND APPROVED CHANGES THERETO. ENSURE THAT THE DATA CONTAINED IN THE STATUS ACCOUNTING REPORT RECORDS FOR THE SYSTEM OR EQUIPMENT IS ADEQUATE AND AVAILABLE FOR: 1.ENGINEERING MANAGMENT 2.PRODUCTION MANAGEMENT 3.LOGISTIC MANAGEMENT ENSURE THAT MEANS ARE PROVIDED FOR FEEDBACK OF ACTUAL INFORMATION ON COSTS, MODIFICATION APPLICATION, SERIAL NUMBER EFFECTIVITY, TO REPLACE THE ESTIMATED DATA, WHERE ESTIMATED DATA WERE SUPPLIED, PRIOR TO THE APPROVAL OF AN ECP OR REQUEST FOR DEVIATION/WAIVER. DATA SOURCE: AR 70-37, AR 700-126

Name	Label	Description
E14.1A2B5	REVIEW STATUS ACCOUNTING PROCEDURES	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE CONFIGURATION STATUS ACCOUNTING PROCEDURES TO ENSURE THAT THE STATUS ACCOUNTING FUNCTION PROVIDES TRACEABILITY OF CONFIGURATION BASE LINES AND CHANGES THERETO AND ACTS AS A MANAGEMENT TOOL FOR ACCOMPLISHING ALL RELATED TASKS RESULTING FROM SUCH CHANGES. THAT A CONFIGURATION RECORD DOCUMENTING ALL APPROVED CONFIGURATION CHANGES TO ALL DESIGNATED CIs ARE MAINTAINED. DATA SOURCE AR 70-37.
E14.1A2B6	REVIEW ECP EVALUATION PROCEDURES	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE ECP EVALUATION PROCEDURES. THIS REVIEW WILL ENSURE THAT A CONFIGURATION CONTROL BOARD (CCB) IS ESTABLISHED TO ACHIEVE COVERAGE OF A COMMANDS RESPONSIBILITY FOR REVIEW AND EVALUATION OF ALL PROPOSED CHANGES TO RELEASED CONFIGURATION IDENTIFICATION DOCUMENTATION. DETERMINE IF THE CCB SERVES AS AN ADVISORY GROUP TO PERFORM A TOTAL IMPACT EVALUATION ON THE ECP. ENSURE THE CCB INCLUDES APPROPRIATE REPRESENTATIVES FROM ELEMENTS RESPONSIBLE FOR ENGINEERING, PRODUCT ASSURANCE, LOGISTIC SUPPORT, PROCUREMENT, PRODUCTION, MAINTENEANCE, AND TEST. ENSURE THAT THE EVALUATION OF EACH PROPOSED CHANGE TAKES INTO CONSIDERATION ALL ASPECTS OF THE CHANGE ON A CI AND THE ASSOCIATED CIs WITH WHICH IT INTERFACES. SUCH ASPECTS SHOULD INCLUDE DESIGN, PERFORMANCE, COST, SCHEDULE, OPERATIONAL EFFECTIVENESS, LOGISTC SUPPORT, TRANSPORTABILITY, AND TRAINING. DATA SOURCE: AR 70-37
E14.1A2B7	REVIEW ILS ELEMENTS/ ITEMS INTERFACE	THE PURPOSE OF THIS PROCESS IS TO ENSURE THAT THE PACKAGE OF DOCUMENTED DATA SUBMITTED WITH THE ENGINEERING CHANGE PROPOSALS SUBMITTED TO DATE CONTAIN RESULTS OF TRADE-OFF ANALYSIS AND IMPACT STATEMENTS AS TO THE EFFECT THE CHANGE WILL HAVE UPON INTERFACING ILS ELEMENTS. ALL SUPPORTABILITY AND SUPPORTABILITY RELATED FACTORS SHOULD BE ADDRESSED. DATA SOURCE: AR 70-37
E14.1A2B8	REVIEW CI INTER-FACE CONTROL PROCEDURES	THE PURPOSE OF THIS PROCESS IS TO ENSURE THAT INTERFACE CONTROL DOCUMENTATION IS DEFINFTIZED AND THE DETAILED INTERFACE REQUIREMENTS ARE INCLUDED IN THE ALLOCATED/PRODUCT BASE LINE DOCUMENTATION IN THE APPROPRIATE CI SPECIFICATION. DATA SOURCE: AR 70-37
E14.1A2B9	DEVELOP CONFIG/ MANAGEMENT ASSESSMENT REPORT	THIS PROCESS WILL CONSOLIDATE THE FINDINGS AND RESULTS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSMENT REPORT ON THE ADEQUACY OF THE CONFIGURATION MANAGEMENT PLANNING TO ENSURE A PROCESS HAS BEEN DEVELOPED THAT IS CAPABLE OF TRACKING THE ITEM CONFIGURATION THROUGH THE LIFE CYCLE WITH A SOUND AUDIT TRAIL. DATA SOURCE; AR 70-37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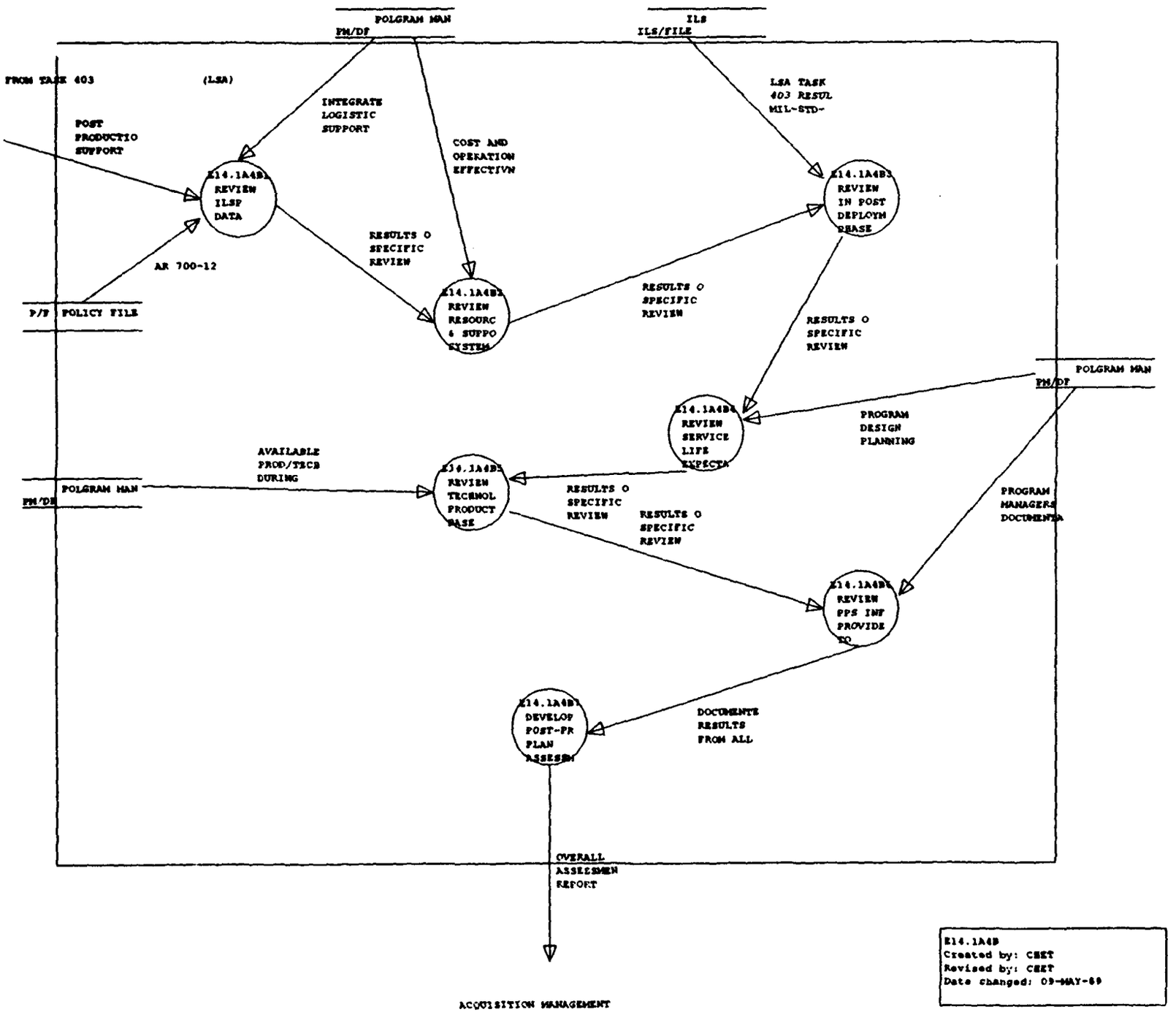
E14.1A3B
Created by: CSET
Revised by: CSET
Date changed: 09-MAY-89

Name	Label	Description
E14.1A3B1	REVIEW O&O PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE O&O PLAN ANALYSIS IN ORDER TO GAIN INSIGHT AS TO THE TYPES AND NUMBER OF EQUIPMENTS REQUIRED TO MEET THE THREAT. THIS INFORMATION IS REQUIRED TO ASSESS THE O&O PLAN IN THE AREAS OF SUPPORTABILITY AND SUPPORTABILITY RELATED FACTORS. DATA SOURCE: PROGRAM MANAGERS DOCUMENTATION FILE, AR 70-1 AMC/TRADOC PAM 70-2.
E14.1A3B2	REVIEW CONSTRAINTS	THE PURPOSE OF THIS PROCESS IS TO REVIEW CONSTRAINTS THAT MAY LIMIT AN ACCEPTABLE SOLUTION TO THE NEED, SUCH AS MOBILITY, TRANSPORTABILITY, MANPRINT, LOGISTICS, ENVIRONMENTAL, COMMUNICATIONS, SURVIVABILITY, TRANSPORTABILITY, COST ETC. DATA SOURCE AR 71-9
E14.1A3B3	REVIEW SYS CONCEPT & OPERATING SCENARIOS	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE PROPOSED SYSTEM SUPPORT CONCEPT AND OPERATIONAL SCENERIOS, TO FORM A BSSIS FOR THE ASSESSMENT OF THE O&O PLAN TO ENSURE ALL SUPPORTABILITY AND SUPPORTABILITY RELATED FACTORS INCLUDED IN THE O&O PLAN ARE COMPATIBLE WITH THE INTENDED USE OF THE SYSTEM/EQUIPMENT. DATA SOURCE: SYSTEM OPERATIONAL MODE SUMMARY AND MISSIOM PROFILE (OMS/MP), AR 70-1, AR 700-127, DA PAM 700-55, O&O PLAN.
E14.1A3B4	REVIEW ILS/ MANPRINT IMPLICATIONS	THE PURPOSE OF THIS PROCESS IS TO ENSURE THAT THE CREW AND MAINTENANCE MANPOWER GOALS AND THRESHOLDS HAVE BEEN ESTABLISHED AND THAT THE PROJECTIONS HAVE BEEN COMPARED TO A CONTEMPORARY BASELINE SYSTEM AND SIGNIFICANT DIFFERENCES EXPLAINED CONSIDERING DESIGN, SUPPORT CONCEPT, AND EMPLOYMENT OBJECTIVE. ENSURE THAT AN ANALYSIS HAS BEEN CONDUCTED TO DETERMINE PROJECTED AVAILABILITY OF REQUIRED MANPOWER AND PLANS HAVE BEEN ESTABLISHED TO RESOLVE ANY PROJECTED SHORTFALLS. THAT THERE ARE PLANS TO UPDATE OR FINALIZE MANPOWER AND SKILL LEVEL REQUIREMENTS THROUGH THE LSA PROCESS. THIS PROCESS WILL PROVIDE THE INFORMATION NECESSARY TO ENSURE ALL MANPRINT AND LOGISTIC SUPPORT IMPLICATIONS WERE STUDIED AND TAKEN INTO CONSIDERATION DURING THE DEVELOPMENT OF THE O&O PLAN. DATA SOURCE AR 700-127, AR 602-2, AR 700-128
E14.1A3B5	REVIEW MAINT CONCEPT	THE PURPOSE OF THIS PROCESS IS TO ENSURE THE MAINTENANCE CONCEPT MINIMIZES THE NEED FOR THE USING UNIT TO DISASSEMBLE THE EQUIPMENT AND THE CONCEPT IS CONSISTANT WITH ARMY POLICY SET FORTH IN AR 750-1 REGARDING THE TASKS ASSIGNED TO EACH LEVEL MAINTENANCE. ENSURE THE MAINTENANCE CONCEPT IS SUPPORTED BY DOCUMENTED ANALYSIS, AND THERE ARE PLANS (REFLECTED IN THE LOGISTICS DEMONSTRATION PLAN AND TEMP) TO PERFORM AND EVALUATE ALL PROPOSED MAINTENANCE TASKS DURING FSD AS REQUIRED BY AR 700-127. ENSURE THEPE ARE PLANS TO CORRECT SHORT COMINGS DISCOVERED DURING THE TESTING PROCESS. THE BASIS OF THIS REVIEW IS TO ENSURE THERE WAS AN EARLY MAINTENANCE CONCEPT DEVELOPED AND USED DURING THE DEVELOPMENT OF THE O&O PLAN. DATA SOURCE: AR 700-127, AR 700-126, AR 750-1.

Name	Label	Description
E14.1A3B6	REVIEW SYSTEM READINESS OBJECTIVE (SRO)	THE PURPOSE OF THIS PROCESS IS TO ENSURE THAT THE INITIAL SROs (PEACETIME AND WARTIME) HAVE BEEN ESTABLISHED AND ARE CONSISTANT WITH CURRENT TECHNOLOGY AND THAT THERE ARE SUFFICIENT TESTS AND ENGINEERING AND SUPPORT ANALYSIS PLANED TO PROVIDE EVIDENCE OF SATISFACTORY PROGRESS TOWARD MEETING THE TENTATIVE SRO THRESHOLD REQUIREMENTS, RESOLVING TECHNICAL RISKS AND KNOWN PROBLEMS OF SIMILAR FIELDED SYSTEMS. DETERMINE IF THE PROJECTED MEAN ADMINISTRATION AND LOGISTICS DOWNTIME PROJECTED IN THE SROs ARE CONSISTANT WITH HISTORICAL DATA ON ANTICIPATED SUPPLY , MAINTENANCE, RECOVERY, AND EVACUATION RESPONSIVENESS. DATA SOURCE: DA PAM-700-30, AR 725-50, AR 700-18, AR 700- 127, DA PAM 700-55, AMC/TRADOC PAM 70-11.
E14.1A3B7	DEVELOP O&O PLAN ASSESSMENT REPORT	THIS PROCESS WILL CONSOLIDATE THE FINDINGS AND RESULTS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSMENT REPORT OF THE O&O PLAN AND ENSURE ALL SUPPORTABILITY AND SUPPORTABILITY RELATED ISSUES WERE CONSIDERED AND ADDRESSED IN THE PLAN.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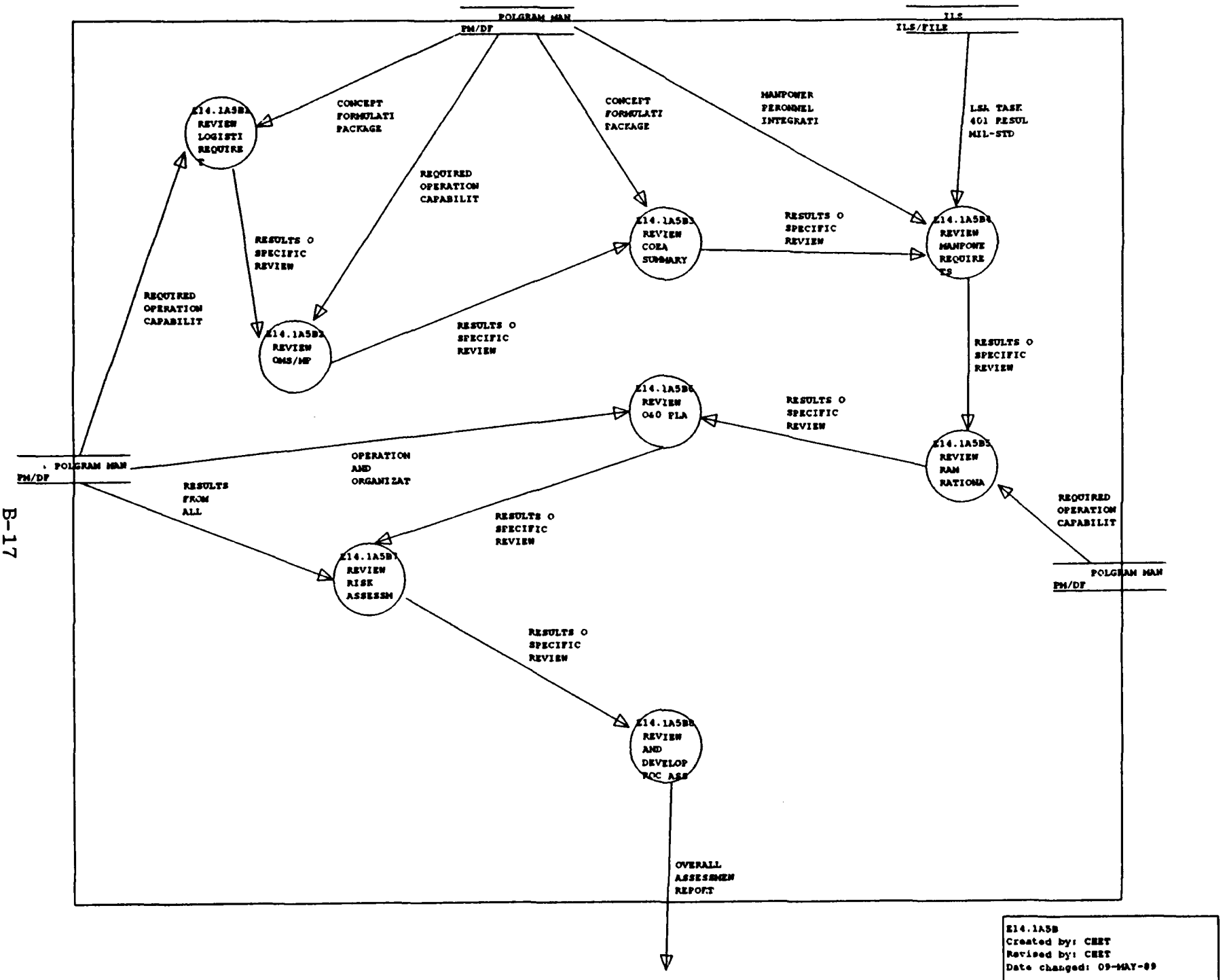
Created by: CSET
Revised by: CSET
Date changed: 09-MAY-89

Name	Label	Description
E14.1A4B1	REVIEW ILSP DATA	THE PURPOSE OF THIS REVIEW IS TO GAIN INSIGHT OF THE MAINTENANCE PLAN, MAINTENANCE ENGINEERING ANALYSIS AND EVALUATION OF THE END ITEM OR SYSTEM TO BE SUPPORTED, THE MAINTENANCE ALLOCATION CHART, AND TO REVIEW THE RELEASED PARTS DRAWINGS, DISCRIPTIONS, ASSEMBLY, GENERAL ARRANGEMENTS AND DIAGRAMS SUFFICIENT TO INDICATE THE PHYSICAL CHARACTERISTICS OF THE PARTS IN THE EQUIPMENT AND THE LOCATION AND FUNCTION OF EACH PART. REVIEW THE SYSTEM RELIABILITY AND MAINTAINABILITY DATA. REVIEW COSTS ASSOCIATED WITH IN-HOUSE AND CONTRACTOR MANUFACTURING AND REPAIR ALTERNATIVES. REVIEW THE SUPPLY AND CONSUMPTION DATA AVAILABLE ON THE SYSTEM DURING TESTS AND POST DEPLOYMENT. INFORMATION GATHERED DURING THIS REVIEW WILL FORM THE BASIS FOR THE POST-PRODUCTION SUPPORT PLAN ASSESSMENT. DATA SOURCE: AR 700-127, AR 700-12, SYSTEM ILSP, DA PAM 700-26.
E14.1A4B2	REVIEW RESOURCES & SUPPORT SYSTEM CONSTRAINT	THE PURPOSE OF THIS PROCESS IS TO ENSURE THAT ADEQUATE ANALYSIS AND EVALUATIONS HAVE BEEN ACCOMPLISHED TO ENSURE POST-PRODUCTION SUPPORT REQUIREMENTS HAVE BEEN IDENTIFIED AND SUFFICIENT FUNDING IS AVAILABLE TO ENSURE THE SYSTEM CAN BE SUPPORTED AND MAINTAINED AND OPERATED IN A STATE OF READINESS THAT MEETS THE DESIGN REQUIREMENTS AND SYSTEM READINESS OBJECTIVE THROUGH THE SYSTEM LIFE CYCLE. THIS REVIEW SHOULD IDENTIFY SUPPORT ITEMS THAT WILL PRESENT POTENTIAL PROBLEMS DUE TO INADEQUATE SOURCES OF SUPPLY AFTER SHUT DOWN OF PRODUCTION LINES, POTENTIAL ALTERNATIVES TO SATISFY SUPPORT PROBLEMS FOR THE SYSTEM/EQUIPMENTS EXPECTED USEFUL LIFE AND RECOMMENDED PLAN TO ASSURE EFFECTIVE LOGISTIC SUPPORT FOR THE SYSTEM/EQUIPMENT FOR ITS REMAINING LIFE. THIS PROCESS WILL ALSO IDENTIFY ANY HARDWARE OR SOFTWARE FOR WHICH THE GOVERNMENT WILL NOT OR MAY NOT HAVE FULL DESIGN RIGHTS DUE TO CONSTRAINTS IMPOSED BY REGULATIONS OR LAWS LIMITING THE INFORMATION THE CONTRACTOR MUST FURNISH BECAUSE OF PROPRIETARY OR OTHER SOURCE CONTROL CONSIDERATION. ALL OTHER SUPPORT SYSTEM OR FUNDING CONSTRAINTS SHOULD BE ASSESSED AND EVALUATED. DATA SOURCE: AR 700-127, DA PAM 700-55, MIL-STD-1388.1A TASK-401 AND 403, DI P-7119.
E14.1A4B3	REVIEW SRO IN POST-DEPLOYMENT PHASE	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE REQUIRED SYSTEM READINESS OBJECTIVE DURING THE POST-PRODUCTION PHASE AS THE BASIS FOR THE POST-PRODUCTION SUPPORT PLAN ASSESSMENT TO ENSURE THE SYSTEM WILL BE SUPPORTABLE IN BOTH PEACETIME AND WARTIME OPERATIONAL ENVIRONMENT, AFTER THE ASSEMBLY AND PRODUCTION LINES HAVE BEEN CLOSED. DATA SOURCE: AR 70-1, TRADOC/AMCP 70-2, AR 700-127, DA PAM 700-55.
E14.1A4B4	REVIEW SERVICE LIFE EXPECTANCY	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE PROJECTED USEFUL LIFE OF THE SYSTEM AND TO ENSURE THE ADEQUACY OF SUPPORT STRATEGY IF THE SYSTEM LIFE CYCLE IS EXTENDED BEYOND THE ORIGINAL PROJECTED AND ASSESS THE IMPACT THE PREPLANNED PRODUCT IMPROVEMENT PROGRAM WILL HAVE UPON THE SYSTEM DURING THE POST DEPLOYMENT LIFE CYCLE (READINESS OBJECTIVE AND CONSEQUENTLY THE POST-PRODUCTION SUPPORT REQUIREMENTS). SOURCE OF DATA: LSA TASK 403 MIL-STD-1388.1A

Name	Label	Description
E14.1A4B5	REVIEW TECHNOLOGY PRODUCTION BASE	THE PURPOSE OF THIS PROCESS IS TO IDENTIFY CANDIDATE TECHNOLOGIES THAT OFFER THE GREATEST POTENTIAL AND ARE SUFFICIENTLY MATURE FOR CONSIDERATION IN DEVELOPING ALTERNATIVE OPERATIONAL AND SUPPORT CONCEPTS DURING THE LATER YEARS OF THE SYSTEMS LIFE CYCLE THROUGH THE ADVANCEMENT IN PRODUCTION PROCESSES AND INDUSTRIAL BASE CAPACITY. DATA SOURCE: AR 71-9
E14.1A4B6	REVIEW PPS INFO PROVIDED TO CONTRACTOR	THE PURPOSE OF THIS PROCESS IS TO ENSURE THE ORGANIZATION RESPONSIBLE FOR THE POST-PRODUCTION SUPPORT PLANNING HAS ALL OF THE DOCUMENTED DATA NECESSARY TO DEVELOP THE POST-PRODUCTION SUPPORT PLAN. AND ASSESS THE VALIDITY OF THE DATA AND ASSURE THAT ALL SUPPORTABILITY AND SUPPORTABILITY RELATED ISSUES ARE ADDRESSES. DATA SOURCE: AR 700-127, DA PAM 700-55, MIL-STD-1388.1A TASK 403.3.1 DA PAM 700-26.
E14.1A4B7	DEVELOP POST-PROD PLAN ASSESSMENT REPORT	THIS PROCESS WILL CONSOLIDATE THE FINDINGS AND RESULTS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM, REVIEW THE POST PRODUCTION SUPPORT PLAN CONTENTS, AND DEVELOP AN OVERALL ASSESSMENT REPORT OF THE POST-PRODUCTION SUPPORT PLANNING TO ENSURE SPARE AND REPAIR PARTS AND OTHER SUPPORT ITEMS WILL BE AVAILABLE TO SUSTAIN NORMAL OPERATIONS THROUGHOUT THE SYSTEMS EXPECTED SERVICE LIFE, AFTER THE PRODUCTION AND ASSEMBLY LINES HAVE BEEN SHUT DOWN AND THE PRODUCTION CONTRACT BEEN TERMINATED. THIS ASSESSMENT WILL ENSURE THAT ADEQUATE EVALUATIONS HAVE BEEN ACCOMPLISHED OF ALTERNATIVE POST-PRODUCTION SUPPORT STRATEGIES TO ACCOMMODATE OBSOLESCENSE OR PRODUCTION PHASEOUT INCLUDING , BUT NOT LIMITED TO: SECOND SOURCING; SUPPORT BUY-OUT; PREPLANNED PRODUCT IMPROVEMENTS; CONTRACT LOGISTIC SUPPORT VS ORGANIC SUPPORT; SUBSTITUTION OF NEW TECHNOLOGY; STRATEGY FOR CONTINUING SYSTEM ENGINEERING AND EFFECTIVE CONFIGURATION CONTROL OF THE END ITEM AND ASSOCIATED SUPPORT ITEMS OF EQUIPMENT. DATA SOURCE: AR 700-127, AR 700-18, DA PAM 700-55, LSA TASK 401, 403,AND DI-P-7119.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E14.1A5B7
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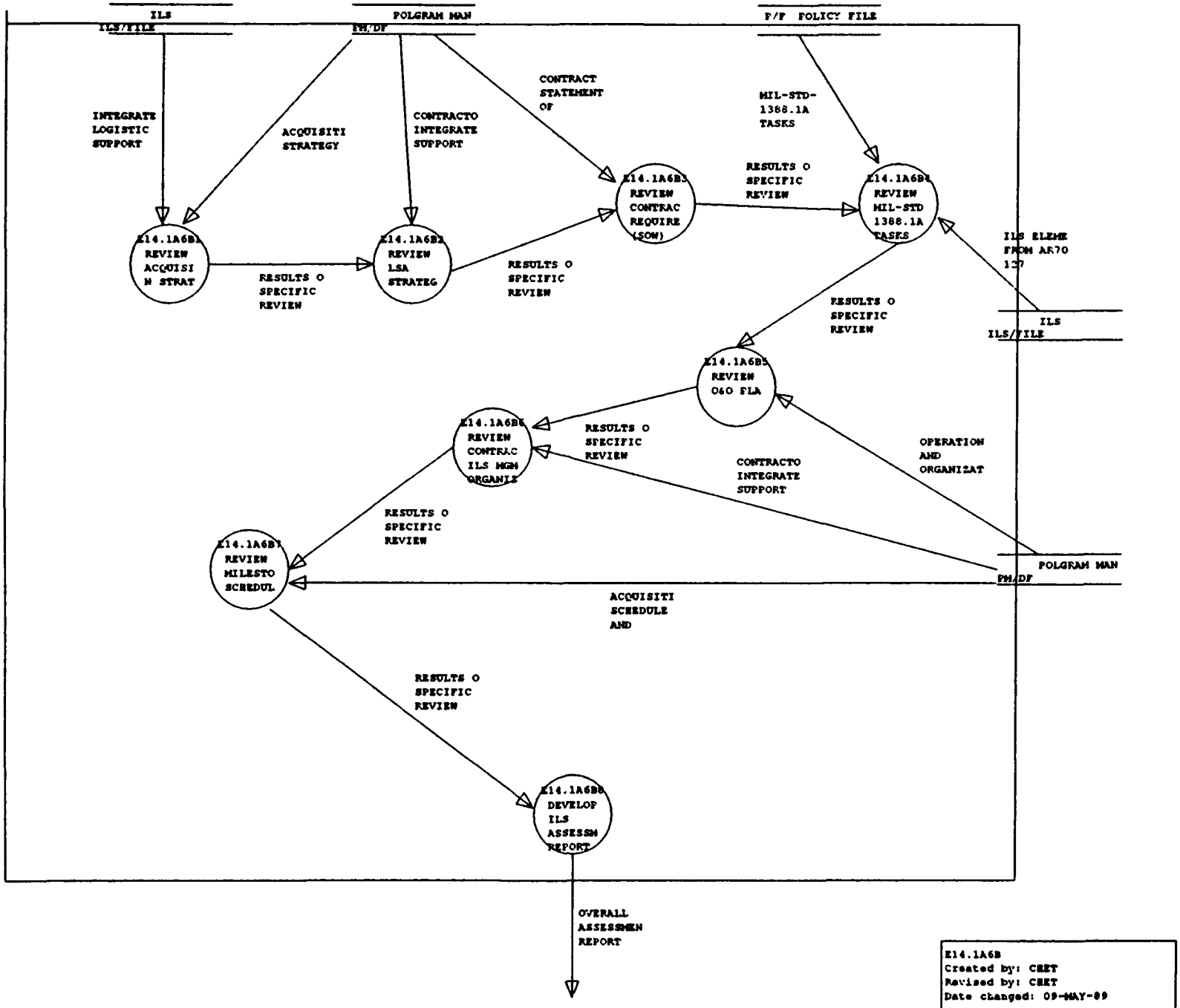
OVERALL
ASSESSMEN
REPORT
E14.1A5B
Created by: CERT
Revised by: CERT
Date changed: 09-MAY-89

Name	Label	Description
E14.1A5B1	REVIEW LOGISTIC REQUIREMENT	THE PURPOSE OF THIS PROCESS IS TO ENSURE ALL LOGISTIC REQUIREMENTS HAVE BEEN IDENTIFIED AND DOCUMENTED AND THAT ALL SUPPORTABILITY AND SUPPORTABILITY RELATED ISSUES ARE ADDRESSED IN THE REQUIRED OPERATIONAL CAPABILITIES DOCUMENTATION (ROC). DATA SOURCE: AR 71-9, AR 700-127, DA PAM 700-55, AR 70-1, AMC/TRADOC PAM 70-2, AMC/TRADOC PAM 70-11.
E14.1A5B2	REVIEW OMS/MP	THE PURPOSE OF THIS PROCESS IS TO ENSURE THE OMS/MP CONTAINES SUFFICIENT INFORMATION TO DEVELOP THE RAM REQUIREMENTS UNDER BASIC CLIMATIC CONDITIONS AND THOSE EXTREME CONDITIONS ASSOCIATED WITH RELATIVE HIGH FREQUENCY USE. AND PROJECT MAINTENANCE MANPOWER REQUIREMENTS BASED ON THE DATA CONTAINED IN THE OMS/MP. ENSURE THE OMS/MP CONTAINES SUFFICIENT DATA TO DEVELOP TEST PLANNING THAT WILL PROVIDE DATA TO EVALUATE ACHIEVEMENT OF ALL RAM REQUIREMENTS UNDER FIELD SUPPORT CONDITIONS. DATA SOURCE AR 71-9, AND AR-700-127, AND AR-700-128, TRADOC REG.71-4 AMC/TRADOC 70-11, AR 702-3.
E14.1A5B3	REVIEW COEA SUMMARY	THE PURPOSE OF THIS PROCESS IS TO ENSURE THE COEA CONSIDERED THE TOTAL ILS COSTS INCLUDING THE PROJECTED OPERATIONAL , MAINTENANCE AND SUPPORT COSTS AND ENSURE LOGISTIC RESOURCES HAVE BEEN IDENTIFIED AND REALISTICALLY REPRESENTS THE REQUIREMENTS NECESSARY TO SUPPORT THE EQUIPMENT IN IT'e OPERATIONAL ENVIRONMENT THROUGHOUT ITS LIFE CYCLE. AND TO ENSURE A LIFE-CYCLE COST ASSESSMENT IS INCLUDED IN THE ROC. DATA SOURCE: AR 700-127, AR 71-9.
E14.1A5B4	REVIEW MANPOWER REQUIREMENTS (MANPRINT)	THE PURPOSE OF THIS PROCESS IS REVIEW THE MANPRINT ANALYSIS TO ENSURE THE MANPOWER PROJECTIONS AND SKILL LEVEL PROJECTIONS ARE CONSISTANT WITH THE SYSTEMS OPERATIOAL REQUIREMENTS AND THAT CREW, MAINTENANCE, AND SUPPLY MANPOWER GOALS AND THREASHOLDS HAVE BEEN ESTABLISHED AND ARE AVAILABLE FOR INCLUSION IN THE ROC. AR 71-9 AR 70-1, TRADOC/AMCP 70-2, AR 700-127, DA PAM 700-55, AR 602-2.
E14.1A5B5	REVIEW RAM RATIONAL	THE PURPOSE OF THIS PROCESS IS TO ENSURE A FAILURE DEFINATION/SCORING CRITERIA (FD/SC) CONSISTANT WITH THE OPERATIONAL MODE SUMMARY/MISSION PROFILE (OMS/MP),AND SYSTEM RELIABILITY REQUIREMENTS HAVE BEEN DEVELOPED AND COORDINATED WITH REQUIRED AGENCIES ACCORDING TO AR 702-3 AND TO ENSURE THE FD/SC INCLUDES AN ASSESSMENT OF INCIDENTS RELATED TO LOGISTICS BURDEN, DURABILITY, AND MISSION SUCCESS. DATA SOURCE: AR 702-3, AR 700-127, DA PAM 700-55, TRADOC/AMC PAM 70-11.
E14.1A5B6	REVIEW O&O PLAN	THE PURPOSE OF THIS PROCESS IS TO ENSURE THE O&O PLAN INCLUDES APPROPRIATE LOGISTICS RELATED TENTATIVE RELIABILITY, DURABILITY, SUPPORTABILITY, MANPOWER, AND COST REQUIREMENTS CONSISTENT WITH AVAILABLE CURRENT TECHNOLOGY AND THE SRO (PEACETIME AND WARTIME) HAVE BEEN ESTABLISHED BASED ON THE AVAILABLE TECHNOLOGY AND THE THREAT THAT MUST BE COUNTERED. SOURCE OF DATA: AR 702-3, AR 700-127, AR 70-1,AR 71-9.

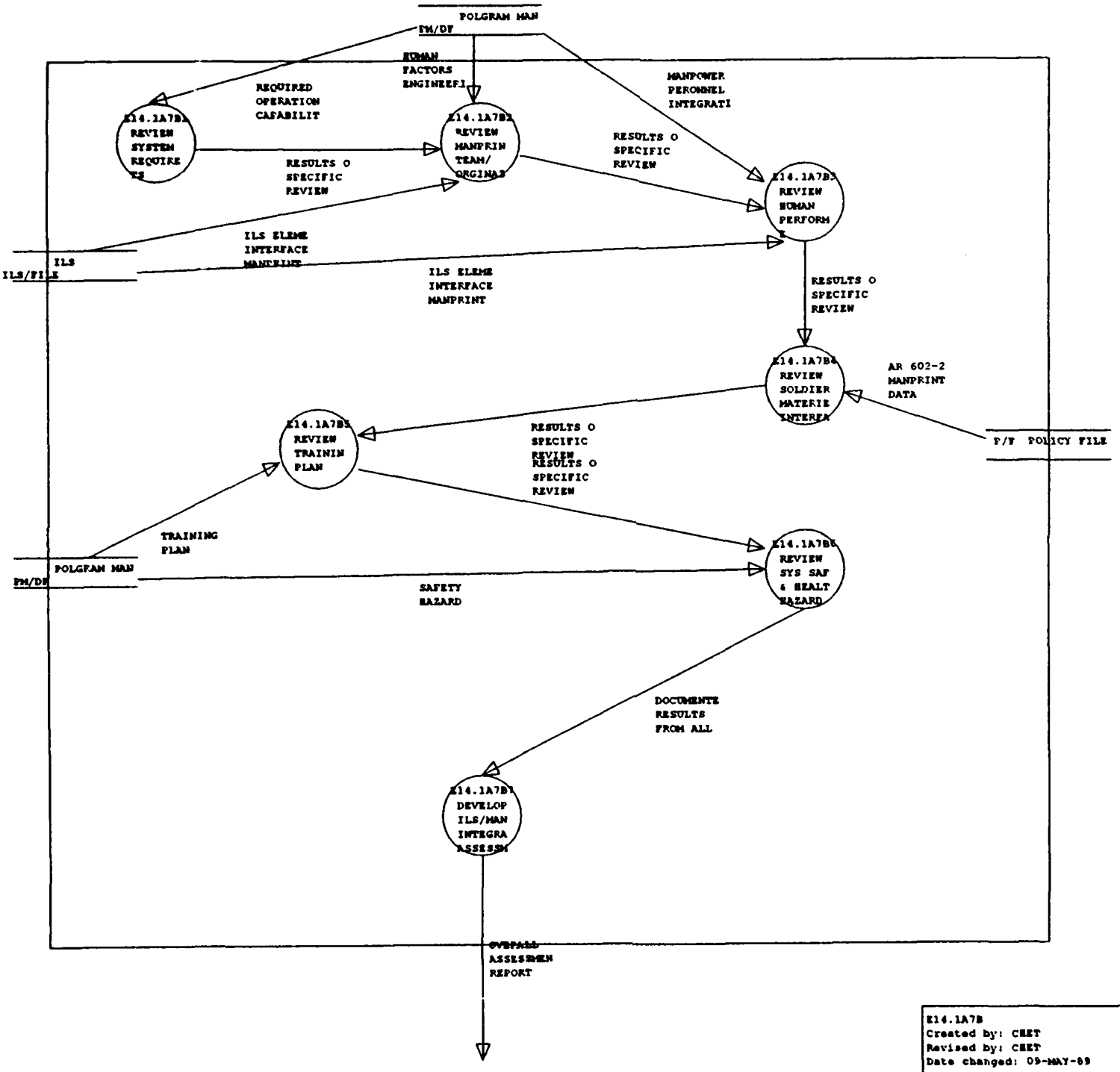
Name	Label	Description
E14.1A5B7	REVIEW RISK ASSESSMENT	THE PURPOSE OF THIS PROCESS IS TO ENSURE ALL RISKS HAVE BEEN IDENTIFIED CONCERNING THE TECHONOLOGY BASE, SCHEDULE, DESIGN , MANPOWER AVAILABILITY, TRAINING REQUIREMENTS, AND ALL SUPPORTABILITY AND SUPPORTABILITY RELATED ISSUES. AND THAT ACCEPTABLE SOLUTIONS HAVE BEEN DEVELOPED TO REDUCE THE RISKS TO AN ACCEPTABLE LEVEL. AR 70-1, AR 700-127, DA PAM 700-55, MIL-STD-1388.1A.
E14.1A5B8	REVIEW ROC AND DEVELOP ROC ASSMNT REPORT	THIS PROCESS WILL REVIEW THE ROC AND CONSOLIDATE THE FINDINGS AND RESULTS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSEMNT REPORT OF THE REQUIRED OPERATIONAL CAPABILITY FOR THE SYSTEM TO ENSURE ALL ILS CONSIDERATIONS WERE ASSESSED AND INCLUDED IN THE ROC DOCUMENTATION. DATA SOURCE: AR 700-127, AR 71-9, AR 70-1, TRADOC/AMC PAM 70-2.



ACQUISITION MANAGEMENT

Name	Label	Description
E14.1A6B1	REVIEW ACQUISITIO N STRATEGY	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE ACQUISITION STRATEGY TO ENSURE THE CONTRACTORS ISP IS CONSISTENT WITH THE ACQUISITION STRATEGY PLANNING. DATA SOURCE: DA PAM 700-55, AR 700-127, AR 700-28 AR 70-1, LSA TASK 101 OF MIL-STD 1388.1A.
E14.1A6B2	REVIEW LSA STRATEGY	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE CONTRACTORS LSA STRATEGY AND ENSURE THE CONTRACTOR HAS DEVELOPED HIS LSA STRATEGY BASED ON AND IN PARALLEL WITH THE ARMY ACQUISITION AND LSA REQUIREMENTS AND ENSURE THE REQUIRED TASKS IDENTIFIED IN MIL-STD-1388.1A HAVE BEEN ADDRESSED AND COST ESTIMATES ARE REASONABLE. AR 700-127, DA PAM 700-55, AR 70-1, MIL-STD-1388.1A
E14.1A6B3	REVIEW CONTRACT REQUIREMEN (SOW)	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE CONTRACT STATEMENT OF WORK TO ENSURE IT IS CONCISE AND CONTAINS ALL SPECIFIC ILS SPECIFICATIONS STATED IN THE CONTRACT AND TASKS REQUIRED TO DEVELOP DATA TO PROJECT AND ASSESS SPECIFIC PARAMETERS RELATIVE TO COST, SCHEDULE, PERFORMANCE , SUPPORTABILITY AND SUPPORTABILITY RELATED ISSUES AND ENSURE THERE IS NO DUPLICATED EFFORT CALLED FOR. ENSURE THE CONTRACTOR HAS A CLEAR UNDERSTANDING AS TO WHAT IS REQUIRED WHEN IT IS REQUIRED AND WHY IT IS REQUIRED, AND THE TASKS ARE SCHEDULED FOR COMPLETION CONSISTENT WITH THE SYSTEN ACQUISITION SCHEDULE,AND ALL CONTRACT DELIVERABLES ARE LISTED AS INDIVIDUAL LINE ITEMS ON THE CONTRACT DATA REQUIRMENTS LIST(CDRL)AND A DATA ITEM DISCRIPTION (DID)IS IDENTIFIED FOR EACH DELIVERABLE. SOURCE: MIL-STD 1388.1A, AR 700-127, DA PAM 700-55, AMCP 700-21, MIL-STD 248.
E14.1A6B4	REVIEW MIL-STD 1388.1A TASKS	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE MIL-STD-1388.1A TASKS IDENTIFIED TO BE ACCOMPLISHED TO ENSURE THE SELECTION WAS MADE BY A TAILORING PROCESS WHICH TAILORED THE TASKS REQUIREMENTS TO THE TYPE ACQUISITION AND TO ENSURE THE TASKS SELECTED WILL PROVIDE THE REQUIRED DATA TO ASSESS THE VALIDITY OF ALL ILS REQUIREMENT PROJECTIONS AND TO CONTINUALLY UPDATE AND ASSESS SUPPORTABILITY AND SUPPORTABILITY RELATED ISSUES. DATA SOURCE: MIL-STD-1388.1A, AR 700-127, AR 70-1.
E14.1A6B5	REVIEW O&O PLAN	THE PURPOSE OF THIS REVIEW IS TO GAIN INSIGHT ON THE PLANED USE AND QUANTITY OF END ITEMS TO BE SUPPORTED, THE INITIAL ILS REQUIREMENTS, THE PLANED USE RATE, MAINTENANCE CONCEPT, MANPOWER REQUIREMENTS, etc. THIS DATA WILL BE USEFUL AND NECESSARY TO ASSESS THE CONTRACTORS INTEGRATED SUPPORT PLAN. DATA SOURCE: AR 700-127, DA PAM 700-55, AR 70-1, TRADOC/AMCP 70-2
E14.1A6B6	REVIEW CONTRACTOR ILS MGMT ORGANIZATI ON	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE CONTRACTOR ILS ORGINAZITION TO ENSURE AN ILS MANAGER HAS BEEN ASSIGNED AND HAS BEEN DELEGATED THE AUTHORITY TO REPRESENT THE CONTRACTOR IN ALL MATTERS CONCERNING INTEGRATED LOGISTIC SUPPORT ISSUES, AND A INTEGRATED LOGISTIC SUPPORT MANAGEMENT TEAM HAS BEEN ORGANIZED AND CONTAINS A QUALIFIED REPRESENTATIVE RESPONSIBLE FOR EACH OF THE ILS ELEMENTS, AND THAT ALL INTERFACING ENGINEERING DICIPLINES ARE REPRESENTED. DATA SOURCE: DA PAM 700-55, AR 700-127, MIL-STD-1369A.

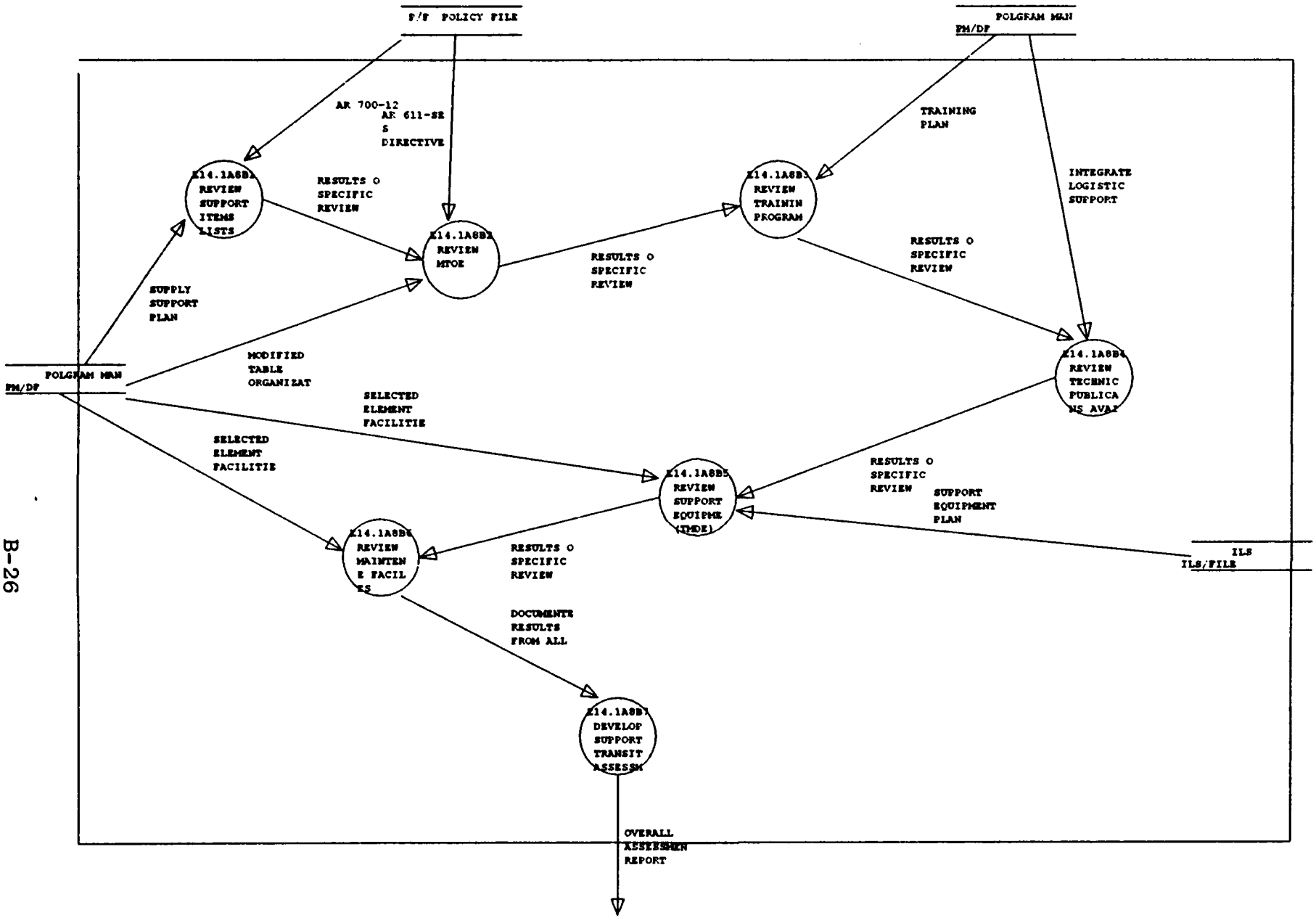
Name	Label	Description
E14.1A6B7	REVIEW ILS MILESTONE SCHEDULE	THE PURPOSE OF THIS REVIEW IS TO ENSURE ALL OF THE ILS TASKS AND EVENTS ARE SCHEDULED WITH A BEGINNING AND END DATE ESTABLISHED, AND THE MILESTONE CHART REFLECTS THOSE REQUIREMENTS THAT ARE TO BE MET ARE CONSISTENT WITH THE ACQUISITION SCHEDULE AND SYSTEM ACQUISITION MILESTONE REVIEWS. DATA SOURCE: MIL-STD-1369A, AR 799-127. DA PAM 700-55.
E14.1A6B8	DEVELOP ILS ASSESSMENT REPORT	THIS PROCESS WILL REVIEW THE CONTRACTORS ISP AND CONSOLIDATE THE FINDINGS AND RESULTS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSMENT REPORT OF THE CONTRACTORS INTEGRATED SUPPORT PLAN TO ENSURE IT IS CONSISTENT WITH THE ILSP AND ALL ILS ELEMENTS ARE INCLUDED AND APPROPRIATE ANALYSIS TASKS ARE IDENTIFIED TO SATISFY THE CONTRACT STATEMENT OF WORK. DATA SOURCE; MIL-STD- 1369A, DA PAM 700-55, AR 700-127.



ACQUISITION MANAGEMENT

Name	Label	Description
E14.1A7B1	REVIEW SYSTEM REQUIREMENTS	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE SYSTEM REQUIREMENTS TO GAIN THE KNOWLEDGE NECESSARY TO ENSURE THE MANPRINT EFFORT INFLUENCES THE INITIAL FUNCTIONAL ALLOCATION OF TASKS BETWEEN PEOPLE, HARDWARE, AND SOFTWARE, AND THAT MANPRINT IS CONSIDERED IN ESTABLISHING LOGISTICS RELATED DESIGN CONSTRAINTS AND READINESS REQUIREMENTS, AND THAT HUMAN PERFORMANCE CAPABILITIES ARE CONSIDERED WHEN DETERMINING SYSTEM PERFORMANCE REQUIREMENTS. DATA SOURCE: AR 700-127, AR 602-2, DA PAM 700-55, TRADOC/AMC PAM 70-2.
E14.1A7B2	REVIEW MANPRINT TEAM/ ORGANIZATION	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE MANPRINT TEAM ORGANIZATION TO ENSURE THAT ALL AREAS OF MANAGEMENT ARE REPRESENTED THE TEAM SHOULD INCLUDE THE FOLLOWING PERSONNEL: 1. PROGRAM MANAGER (PM) 2. INTEGRATED LOGISTIC SUPPORT MANAGER (ILSM) 3. TRADOC SYSTEM MANAGER (TSM) 4. HUMAN ENGINEERING LABORATORY 5. OFFICE OF THE SURGEON (OTSG) 6. SAFETY OFFICES WHITH IN DA, TRADOC, AND AMC. 7. SYSTEM TESTERS 8. CONTRACTORS AND 9. ARMY RESEARCH INSTITUTE FOR THE BEHAVIORAL AND SOCIAL SCIENCES (ARI) DATA SOURCE: AR 602-2, AR 700-127, AR 611 SERIES, AR 570-2
E14.1A7B3	REVIEW HUMAN PERFORMANCE REQUIRMTS	THE PURPOSE OF THIS PROCESS IS TO REVIEW HUMAN PERFORMANCE, CAPABILITIES AND LIMITATIONS TO ENSURE THAT MANPRINT WILL FOCUS ON TOTAL FORCE STRUCTURE MANNING ISSUES AND IDENTIFIES UP-FRONT CONSTRAINTS FOR THE ACQUISION AND ILS PROCESS, AND ENSURE THAT HUMAN PERFORMANCE, CAPABILITY, AND PERFORMANCE ARE CONSIDERED DURING PLANNING, DEVELOPMENT AND DEPLOYMENT OF EACH ILS ELEMENT. DATA SOURCE: AR 700-127, DAPAM 700-55 , AR 602-2.
E14.1A7B4	REVIEW SOLDIER/ MATERIEL INTERFACE CHARACTERI	THE PURPOSE OF THIS PROCESS IS TO REVIEW SOILDER/MACHINE INTERFACE CHARACTERISTICS TO ENSURE THAT MANPOWER REQUIREMENTS ARE BASED ON RELATED ILS ELEMENTS AND MANPRINT CONSIDERATIONS, AND TO ENSURE HUMAN FACTORS ENGINEERING OR BEHAVIORAL RESEARCH WAS APPLIED TO DETERMINE SOLDIER MACHINE INTERFACE AND THEY ARE PREDICATED ON ACCOMPLISHING THE LOGISTIC SUPPORT MISSION IN THE MOST EFFECIENT AND ECONOMICAL WAY. DATA SOURCE: AR 700-127, DAPAM 700-55, AR 602-2, LSA TASK 303.
E14.1A7B5	REVIEW TRAINING PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW SYSTEM TRAINING PLAN AND NEW EQUIPMENT TRAINING PLAN TO ENSURE THAT THE MANPRINT PROCESS WAS APPLIED TO DETERMINE TRAINING NEEDS AND CONSTRAINTS, AND TO IDENTIFY TRAINING AND TRAINING DEVICES. THE TRAINING PLAN SHOULD REQUIRE TASKS TO DEVELOP TECHNIQUES AND TOOLS WHICH WOULD BE USED TO IDENTIFY INITIAL TRAINING STRATEGIES AND ESTIMATES OF REQUIRED TRAINING RESOURCES. DATA SOURCE: AR 700-127, DA PAM 700-55, AR 602-2, AR 570-2, AR 350-35.

Name	Label	Description
E14.1A7B6	REVIEW SYS SAFETY & HEALTH HAZARD ANALYSIS	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE SAFETY AND HEALTH HAZARD ANALYSIS PLAN TO ENSURE THAT IN THOSE CASES WHERE SAFETY OR HEALTH HAZARDS TO OPERATOR OR SUPPORT PERSONNEL EXIST, THE PROPOSED COURSE OF ACTION ADEQUATELY CONSIDERS THE HAZARD CATEGORY, AS DEFINED IN MIL-STD-882, THE LIKELIHOOD OF OCCURANCE, ENGINEERING RISKS, AND IMPACT ON OPERATIONAL EFFECTIVENES, ACQUISITION OR PROCUREMENT COST, AND SCHEDULES AS REQUIRED BY AR 40-10. DATA SOURCE: AR 700-127, AR 40-10, MIL-STD-882, AR 385-16.
E14.1A7B7	DEVELOP ILS/MANPRN INTEGRATIO ASSESSMENT REPORT	THIS PROCESS WILL CONSOLIDATE AND REFINE THE FINDINGS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRANM AND DEVELOP AN OVERALL ILS/MANPRINT INTEGRATION ASSESSMENT REPORT THIS REPORT WILL INCLUDE THE ASSESSMENT OF THE ADEQUACY OF THE INTEGRATION OF ALL SIX DOMAINS OF MANPRINT INTO THE OVERALL ILS ANALYSIS PROCESS.THE SIX DOMAINS OF MANPRINT ARE: 1. HUMAN FACTORS ENGINEERING 2. MANPOWER 3. PERSONNEL 4. TRAINING 5. SYSTEM SAFETY 6. HEALTH HAZARD ASSESSMENT. DATA SOURCE; AR 700-127, AR 602-2

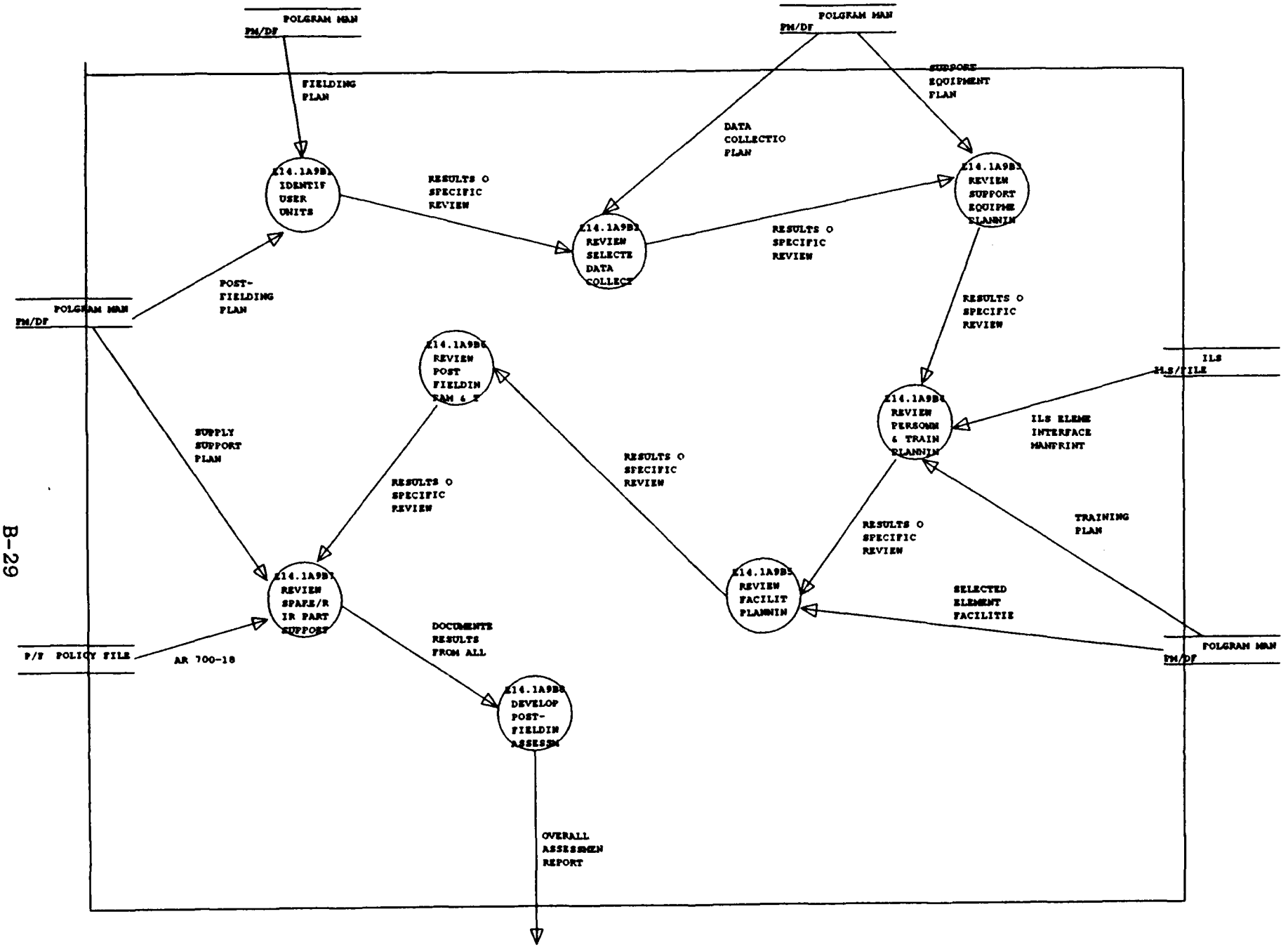


ACQUISITION MANAGEMENT

E14.1A8B
Created by: CERT
Revised by: CERT
Date changed: 09-MAY-89

Name	Label	Description
E14.1A8B1	REVIEW SUPPORT ITEMS LISTS	THE PURPOSE OF THIS PROCESS IS TO ENSURE THAT ALL SYSTEM REPAIR PARTS MEETING PLL OR ASL STOCKAGE CRITERIA AND IDENTIFIED ON THE MSL/MRL OR SLAC DECK AS MISSION ESSENTIAL ARE AVAILABLE AT THE DESIGNATED USING UNITS ACCORDING TO AR 700-120 AND FOR ITEMS NOT CURRENTLY AVAILABLE, THE GAINING COMMAND HAS BEEN NOTIFIED OF THE SHORTAGES AND PROJECTED AVAILABILITY DATES AS REQUIRED BY AR 700-120 AND AR700-142. THIS REVIEW WILL ALSO ASSESS THE AVAILABILITY OF POL, AMMUNITION, SUPPORT AND TEST EQUIPMENT, MHE ect. DATA SOURCE: AR 700-127, AR 700-120, AR 700-18, AR 700-142.
E14.1A8B2	REVIEW MTOE	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE MTOEs TO ENSURE ALL CREW, MAINTENANCE, AND SUPPORT PERSONEL OF SPECIFIED MOS, QUANTITY, SSI, ASI ARE AVAILABLE AT EACH USING UNIT AND ALL CHANGES TO THE MILITARY OCCUPATIONAL STRUCTURE HAVE BEEN ACCOMPLISHED TO IMPLEMENT NEW OR REVISED MOS, SSI, AND ASI's IN ACCORDANCE WITH AR 611-SERIES. DATA SOURCE: AR 700-127, DA PAM 700-55, AR 611-SERIES, AR 570-2.
E14.1A8B3	REVIEW TRAINING PROGRAM	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE TRAINING PROGRAM TO ENSURE THAT THE TRAINING MATERIEL FOR EACH SYSTEM OPERATOR COURSE AND SYSTEM SUPPORT PERSONAL INSTITUTIONAL TRAINING COURSES HAVE BEEN DEVELOPED AND THE POI APPROVED BY TRADOC, AND THAT ALL REQUIRED TRAINING DEVICES ARE AVAILABLE AND SUPPORTABLE AT THE INTENDED TRAINING SITE. ALSO TO ENSURE ALL REQUIRED TRAINING INSTRUCTORS, TRAINING EQUIPMENT, TRAINING AMMUNITION, AND TRAINING DEVICES SUPPORT EQUIPMENT ARE AVAILABLE. THAT SOLDIER MANUALS HAVE BEEN DEVELOPED FOR EACH MOS AND SKILL LEVEL REQUIRED TO OPERATE AND MAINTAIN THE SYSTEM AND ARE AVAILABLE TO EACH GAINING COMMAND. DATA SOURCE: AR 700-127, AR 700-129, AR 350-35
E14.1A8B4	REVIEW TECHNICAL PUBLICATIO NS AVAIL-A BILITY	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE TECHNICAL PUBLICATIONS PLANNING TO ENSURE ALL OPERATOR AND MAINTENANCE MANUALS HAVE BEEN DEVELOPED AND DISTRIBUTED AND THAT SUPPLY AND STORAGE BULLETINS, i.e., STORAGE SERVICEABILITY STANDARDS (SB 740 SERIES), AMMUNITION SURVEILLANCE PROCEDURES (SB 742-1), PACKAGING AND PRESERVATION PROCEDURES ect. HAVE BEEN PREPARED AND DISTRIBUTED TO EACH GAINING COMMAND. DATA SOURCE: AR 700-127, AR 700-128, AR 310-3
E14.1A8B5	REVIEW SUPPORT EQUIPMENT (TMDE) AVAILABILI	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE AVAILABILITY OF SUPPORT EQUIPMENT AND TMDE TO ENSURE THAT SUFFICIENT QUANTITIES AND TYPES OF COMMON EQUIPMENT FOR SUPPLY SUPPORT, MAINTENANCE SUPPORT, SYSTEM OPERATION ARE INCLUDED ON THE TOEs/TDAs AND ENSURE THEY ARE AVAILABLE TO AND SUPPORTABLE BY THE GAINING ACTIVITIES. ALSO ENSURE ALL SYSTEM-PECULIAR EQUIPMENTS HAVE BEEN ADDED TO THE TOEs/TDAs AND THAT THEY ARE ALSO AVAILABLE. DATA SOURCE: AR 700-127, AR 700-126, AR 710-2, AR 700-142.

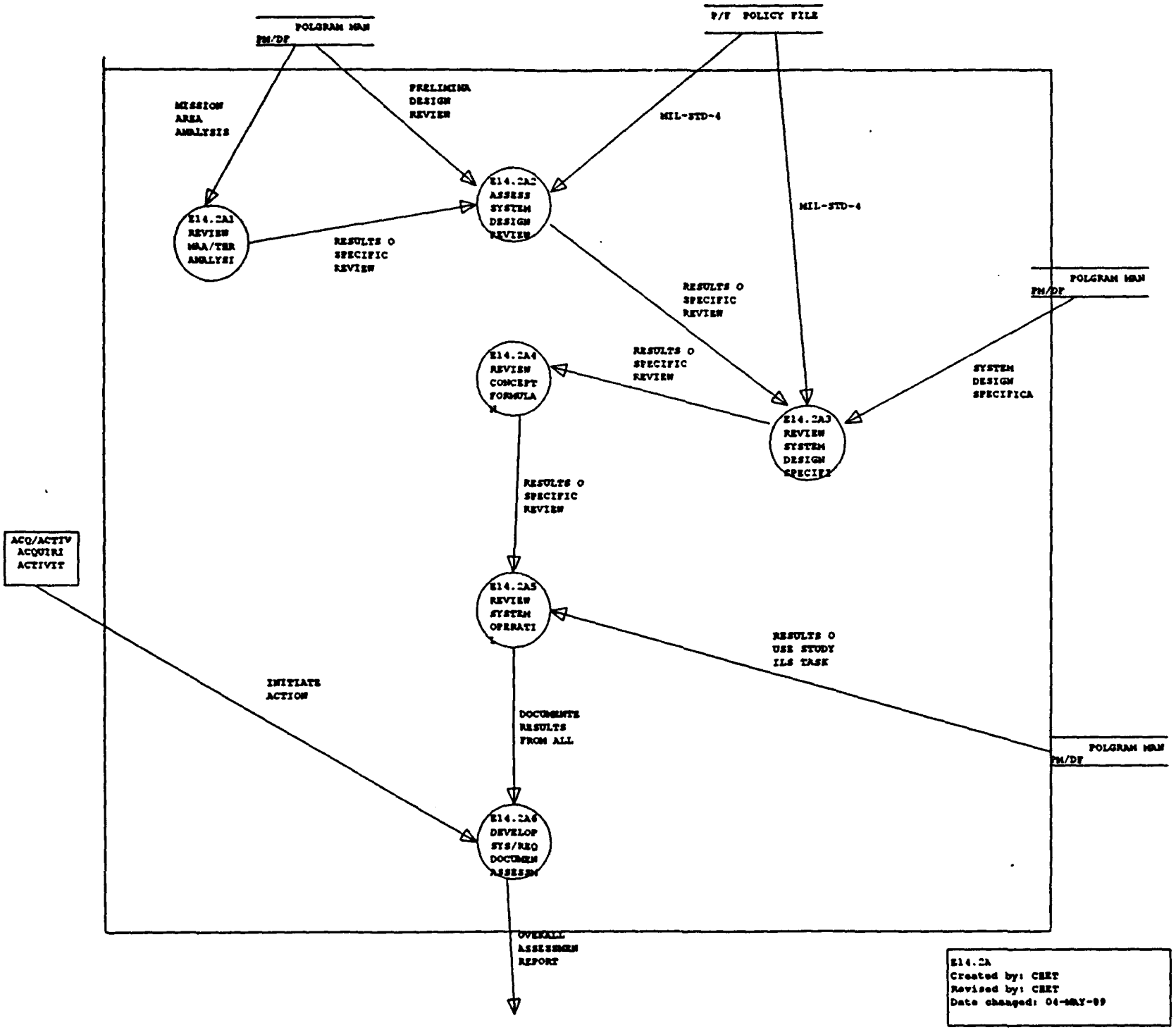
Name	Label	Description
E14.1A8B6	REVIEW MAINTENANCE FACILITIES AVAILABILITY	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE FACILITIES PLANNING AND ENSURE THAT UNIT, IDS, AND IGS MAINTENANCE LEVELS FACILITIES ARE AVAILABLE TO SUPPORT THE SYSTEM AND ASSOCIATED ITEMS AT PROJECTED USEAGE RATES AND THAT DEPOT LEVEL MAINTENANCE FACILITIES AND DEPOT MAINTENANCE PLANT EQUIPMENT ARE COMPATIBLE WITH DESIRED TRANSITION TO OR INITIATION OF ORGANIC DEPOT WORKLOADING. THERE ARE ENOUGH STORAGE FACILITIES OF THE PROPER TYPE AVAILABLE FOR INITIAL ISSUE QUANTITIES OF THE PLL ITEMS INCLUDING THE AMMUNITION BASIC LOAD AND SMALL ARMS STORAGE INCLUDING ARMS RACKS AND CONTAINERS THAT MEET PHYSICAL SECURITY REQUIREMENTS. DATA SOURCE: AR 700-127, AR 700-128, TM-841-1, AR 190-11 SB 740-1
E14.1A8B7	DEVELOP SUPPORT TRANSITION ASSESSMENS REPORT	THE PURPOSE OF THIS PROCESS IS TO CONSOLIDATE THE FINDINGS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND PREPARE AN OVERALL ASSESSMENT REPORT OF THE ADEQUACY OF THE MATERIEL SUPPORT TRANSITION PLANNING TO ENSURE A SMOOTH AND ORDERLY TRANSITION FROM CONTRACTOR SUPPORT TO MSC ORGANIC SUPPORT, THE PLAN SHOULD INCLUDE THE STATUS OF THE TECHNICAL DATA PACKAGE, STATUS OF ALL OUTSTANDING DESIGN/PERFORMANCE ISSUES,PLANNED PRODUCT IMPROVEMENTS AND VALUE ENGINEERING CHANGES, DOCUMENTATION FOR SUPPORT AND MAINTENANCE, AND CONFIGURATION MANAGEMENT DOCUMENTATION AND FUNCTIONS.



ACQUISITION MANAGEMENT

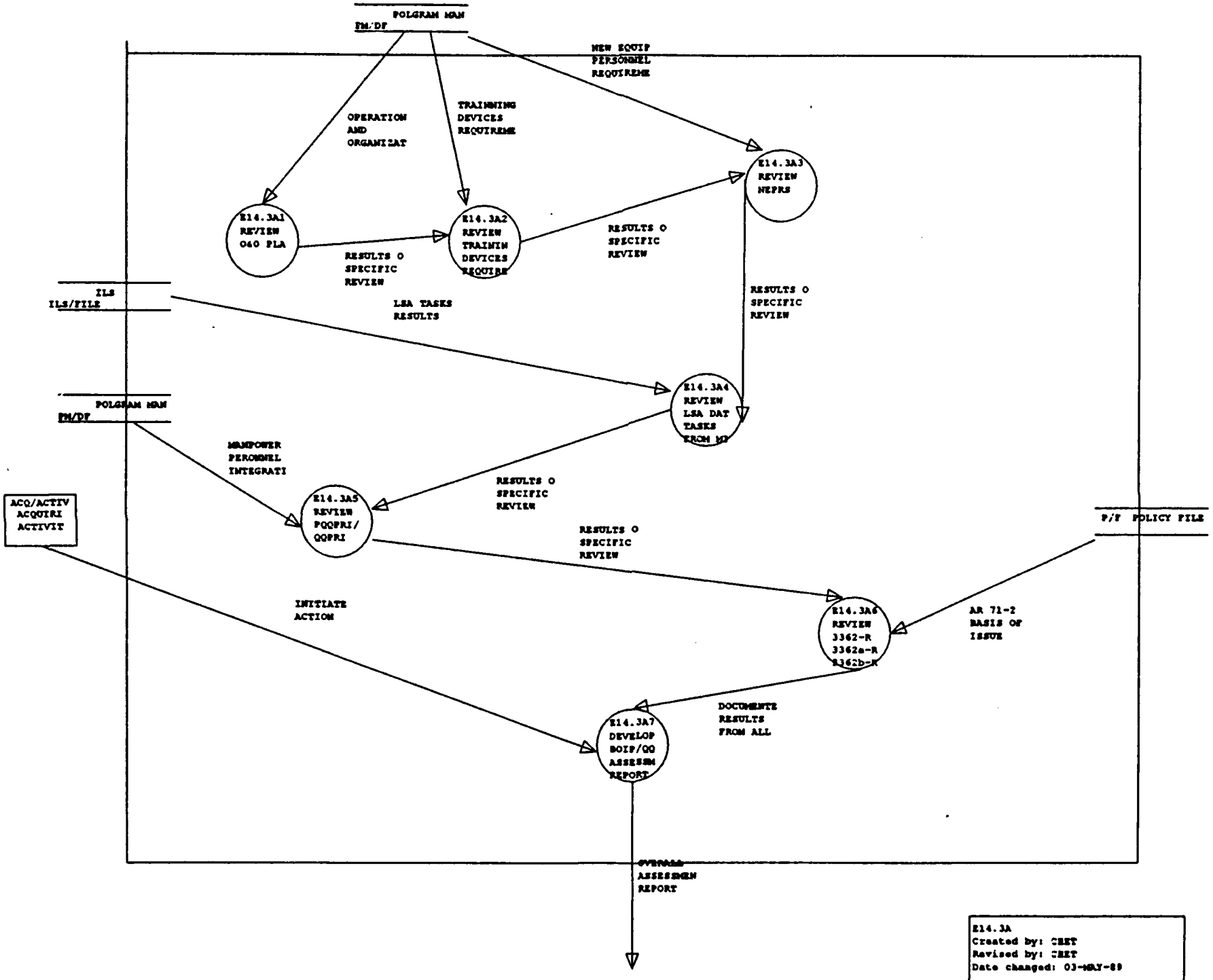
Name	Label	Description
E14.1A9B1	IDENTIFY USER UNITS	THE PURPOSE OF THIS PROCESS IS BASICALLY TO IDENTIFY THOSE USING UNITS THAT WERE GAINING THE NEW SYSTEM/EQUIPMENT AS OPERATIONAL SYSTEM FOR THE FIRST TIME. THIS IDENTIFICATION IS NECESSARY TO DEVELOP AN ASSESSMENT REPORT OF THE POST-FIELDING ACTIVITY AND PLANNING. DATA SOURCE: AR 700-127, DA PAM 700-55, MIL-STD-1388.1A TASK 402.
E14.1A9B2	REVIEW SELECTED DATA COLLECTION SYSTEM	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE DATA COLLECTION SYSTEM TO ENSURE THE SYSTEM PROVIDES ADEQUATE DATA NECESSARY TO MONITOR THE OVERALL SYSTEMS PERFORMANCE AND TO ISOLATE AREAS THAT REQUIRE REMEDIAL ACTION i.e., HIGH MANHOUR CONSUMERS, HIGH FAILURE ITEMS, SUPPLY ITEMS CAUSING NOT READINESS TIME, SHORT SUPPLY ITEMS, OPERATING TIME, NOT OPERATIONAL TIME, REDUCED CAPABILITY TIME, TOTAL STANDBY TIME etc. AR 700-127, AR 750-1, AR 750-37, AR 702-7, TM 38-750.
E14.1A9B3	REVIEW SUPPORT EQUIPMENT PLANNING	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE SUPPORT EQUIPMENT PLANNING AND DETERMINE IF THE SUPPORT EQUIPMENT PROVIDED THE NEW USING COMMAND IS SUFFICIENT AND ADEQUATE TO SUPPORT THE NEWLY FIELDED EQUIPMENT IN ITS INTENDED OPERATIONAL ENVIRONMENT AND THAT THE SUPPORT EQUIPMENT ITSELF IS SUPPORTABLE BY THE USING ACTIVITY. DATA SOURCE: AR 700-127, AR 750-25, AR 750-43
E14.1A9B4	REVIEW PERSONNEL & TRAINING PLANNING	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE PERSONNEL TRAINING PLAN AND ASERTAIN IF THE PLANNING PRODUCED THE QUANTITY AND QUALITY OF PERSONNEL WITH THE REQUIRED SKILLS LEVEL TO OPERATE AND MAINTAIN THE NEWLY FIELDED EQUIPMENT IN ITS OPERATIONAL ENVIRONMENT AND ENSURE THAT REQUIRED TRAINING DEVICES AND TRAINING MATERIEL ARE AVAILABLE TO SUSTAIN THE REQUIRED TRAINING DEMAND TO ENSURE QUALIFIED OPERATOR AND MAINTTENANCE PERSONNEL WILL BE AVAILABLE THROUGH THE SYSTEMS LIFE CYCLE. DATA SOURCE: AR 700-127, AR 350-38, AR 350-35.
E14.1A9B5	REVIEW FACILITIES PLANNING	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE FACILITIES PLANNING TO DETERMINE IF SUFFICIENT FACILITIES WERE PROVIDED TO MAINTAIN AND OPERATE THE NEWLY FIELDED SYSTEM TO INCLUDE FACILITY REQUIREMENTS FOR SUPPLY STORAGE, AMMUNITION STORAGE, PERSONNEL HOUSING, PERSONNEL MESS FACILITIES ect. DATA SOURCE: AR 700-127
E14.1A9B6	REVIEW POST FIELDING RAM & TEST REQUIREMEN	THE PURPOSE OF THIS PROCESS IS TO ENSURE THAT A POST-PRODUCTION TESTING PROGRAM HAS BEEN DEVELOPED AND IMPLEMENTED THAT WILL ENSURE THE MATERIEL WHICH IS REWORKED, REPAIRED, REBUILT OR OVERHAULED AFTER ISSUE AND DEPLOYMENT CONFORMS TO SPECIFIED QUALITY, RELIABILITY, MAINTAINABILITY, SAFETY, AND OPERATIONAL STANDARDS AND TO ENSURE THE TEST PROGRAM INCLUDES DESTRUCTIVE AND OR NON-DESTRUCTIVE TESTS OF ASSEMBLIES, COMPONENTS AND PARTS THAT ARE SUSCEPTABLE TO DETERIORATION IN STORAGE AND THAT THESE TESTS ARE ADEQUATE TO DETERMINE THE CONDITION OF THE IN-STORAGE MATERIEL AND TO PROVIDE JUSTIFICATION FOR RECLASSIFICATION OF MATERIEL THAT HAS DETERIORATED. THIS PROGRAM SHOULD INCLUDE TESTING TO ENSURE THE ACHIEVED RAM MEETS PRE-ESTABLISHED REQUIREMENTS. DATA SOURCE: AR 702-3 AR 702-9 AR 702-10.

Name	Label	Description
E14.1A9B7	REVIEW SPARE/REPAIR PARTS SUPPORT PLANNING	THE PURPOSE OF THIS PROCESS IS TO ENSURE THE RANGE AND QUANTITY OF REPAIR AND SPARE PARTS PROCURED AND STOCKED AT EACH SUPPORT LEVEL, DETERMINED IN ACCORDANCE WITH AR 700-18, ARE SUFFICIENT TO SUPPORT THE THE SYSTEM IN ITS OPERATIONAL ENVIRONMENT IF NOT ARE PLANS PROVIDED TO ADJUST PROVISIONING TO AN ACCEPTABLE LEVEL. ENSURE THAT THE RANGE AND QUANTITY OF ITEMS STOCKED AS REPARABLE EXCHANGE ITEMS IS ADEQUATE TO MEET THE DEMAND SATISFACTION CRITERIA OF AR 710-2. IF NOT, ARE PLANS PROVIDED TO ADJUST PROVISIONING LEVELS TO MEET THIS OBJECTIVE. DATA SOURCE: AR 700-127, AR 700-18, AR 710-2.
E14.1A9B8	DEVELOP POST-FIELDING ASSESSMENT REPORT	THE PURPOSE OF THIS PROCESS IS TO CONSOLIDATE THE FINDINGS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSMENT REPORT OF THE ADEQUACY OF THE POST FIELDING PLANNING AND TO ENSURE PROVISIONS HAVE BEEN MADE TO REVIEW THE SUCCESS OF THE COMPLETE SUPPOTR SYSTEM AND TO COMPARE THE ACHIEVED ILS PRAMETERS WITH THE PROJECTED GOALS AND THRESHOLDS AND TO VERIFY THE SYSTEM DOES MEET THE DESIGN REQUIREMENTS IN ITs OPERATIONAN ENVIRONMENT. DATA SOURCE; AR 700-127



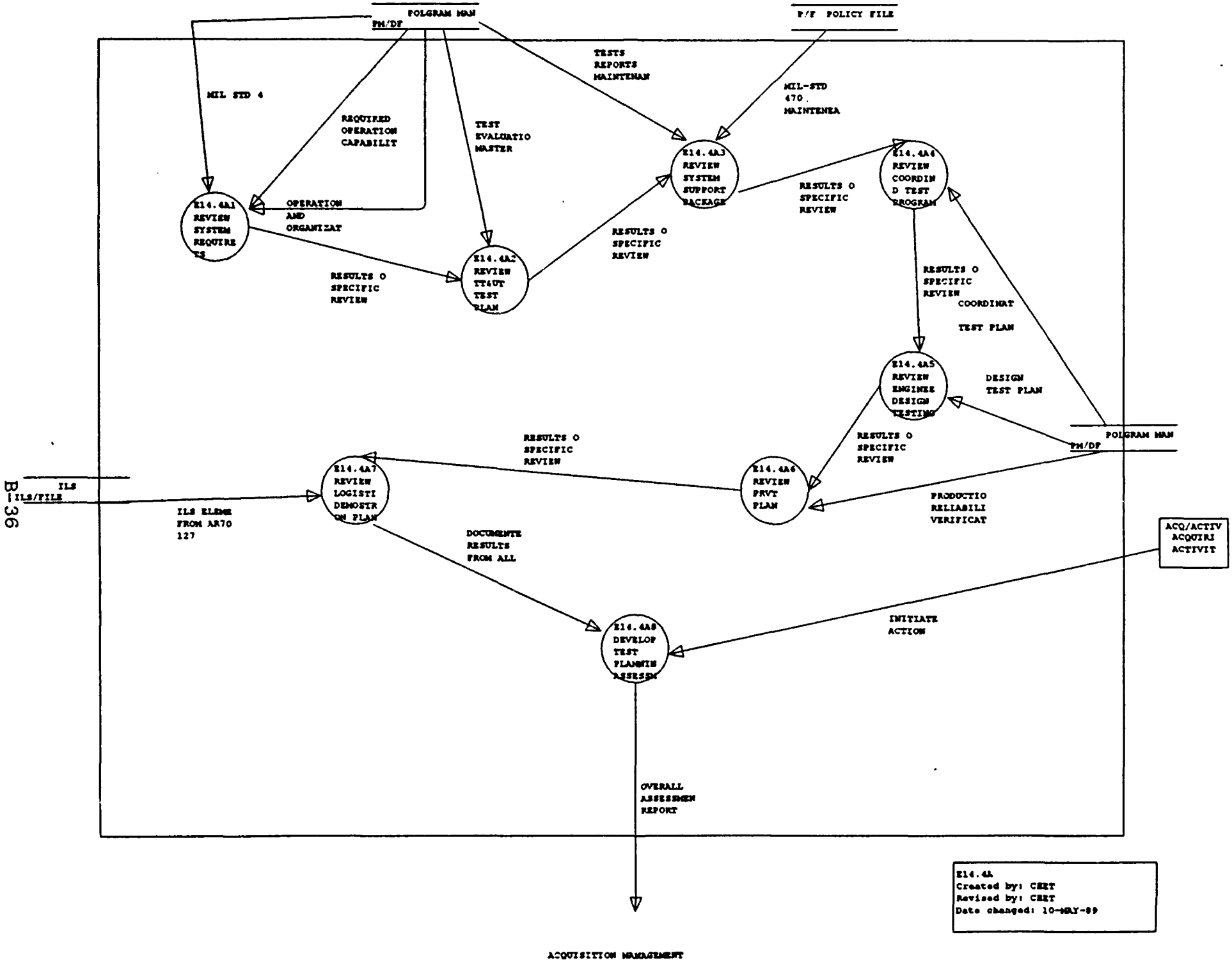
ACQUISITION MANAGEMENT

Name	Label	Description
E14.2A1	REVIEW MAA/THREAT ANALYSIS	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE MAA AND THREAT ANALYSIS IN ORDER TO GAIN INSIGHT AS TO THE MISSION NEEDS AND THE THREAT THAT MUST BE COUNTERED THIS INFORMATION WILL ASSIST THE ANALYST IN ASSESSING THE THE SYSTEMS REQUIREMENTS DOCUMENTATION. DATA SOURCE: AR 70-1, AR 71-9.
E14.2A2	ASSESS SYSTEM DESIGN REVIEW RESULTS	THE PURPOSE OF THIS PROCESS IS TO ASSESS THE SYSTEM REVIEW DATA TO ENSURE THE DESIGN REPRESENTS A FEASIABLE APPROACH, THAT CAN BE SUPPORTED, TO COUNTER THE THREAT AS DESCRIBED IN THE THREAT & MISSION AREA ANALYSIS REPORT. DURING THE SDR THE OVERALL TECHNICAL PROGRAM RISKS ASSOCIATED WITH EACH CONFIGURATION ITEM WILL BE REVIEWED ON A TECHNICAL, COST, AND SCHEDLULE BASIS. FOR A COMPLETE LIST OF WHAT THE CONTRACTOR MUST PROVIDE FOR REVIEW PLEASE REFER TO MIL-STD-1521B APPENDIX D. THIS PROCESS IS MOSTLY CONCERNED WITH THE RESULTS OF THE TRADE-STUDIES, DESIGN STUDIES, FUNCTIONAL FLOW, REQUIREMENTS ALLOCATION DATA, SCHEMATIC DIAGRAMS, AND EQUIPMENT LAYOUT DRAWINGS AND OTHER DATA THAT WILL BE USEFUL IN MANAGING THE ILS EFFORT,AND ASSESSING THE SYSTEM REQUIREMENTS DOCUMENTATION. DATA SOURCE: STD-1521B,
E14.2A3	REVIEW SYSTEM DESIGN SPECIFICATIONS	THE PURPOSE OF THIS PROCESS IS TO ENSURE THE SYSTEM SPECIFICATIONS MEET THE REQUIREMENTS OF MIL-STD 490, AND TO ENSURE SECTION THREE OF THE SYSTEM SPECIFICATION DETAILS ALL REQUIREMENTS SET FORTH IN THE ROC, AND OTHER PROGRAM DOCUMENTS, AND THAT TESTS AND INSPECTIONS REQUIRED TO VERIFY THAT THE REQUIREMENTS ARE MET, ARE INCLUDED IN SECTION FOUR . DATA SOURCE: AR 700-127, MIL-STD 490
E14.2A4	REVIEW CONCEPT FORMULATION PACKAGE	THE PURPOSE OF THIS REVIEW IS TO ENSURE THE TRADE-OFF DETERMINATION, TRADE OFF ANALYSIS, BEST TECHNICAL APPROACH AND COST AND OPERATIONAL EFFECTIVENESS ANALYSIS WERE BASED ON THE SYSTEMS REQUIREMENTS DOCUMENTATION AND THAT THOSE SYSTEM REQUIREMENTS ADDRESSED ALL SUPPOTRABILITY AND SUPPORTABILITY RELATED ISSUES INCLUDING ILS RESOURCE REQUIREMENTS.
E14.2A5	REVIEW SYSTEM OPERATIONAL REQUIREMEN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE SYSTEM OPERATIONAL REQUIREMENTS THIS WILL PROVIDE THE ANALYST WITH THE BACKGROUND INFORMATION NECESSARY TO DEVELOP THE SYSTEM REQUIREMENT ASSESSMENT REPORT. DATA SOURCE: ROC, O&O PLAN, USE STUDY (TASK 201 MIL-STD 1388.1A)
E14.2A6	DEVELOP SYS/REQMTS DOCUMENT ASSESSMENT REPORT	THE PURPOSE OF THIS PROCESS IS TO CONSOLIDATE THE FINDINGS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSMENT REPORT OF THE ADEQUACY OF THE SYSTEM REQUIREMENTS DOCUMENTATION AND TO ENSURE THAT ALL SUPPORTABILITY AND SUPPORTABILITY RELATED ISSUES AND ILS RESOURCES ARE CONSIDERED AND INCLUDED AND ALL ILS ELEMENTS HAVE RECIEVED APPROPRIATE WEIGHTING IN ALL SYSTEM REQUIREMENTS DOCUMENTS. DATA SOURCE; AR 700-127



ACQUISITION MANAGEMENT

Name	Label	Description
E14.3A1	REVIEW O&O PLAN	THE PURPOSE OF THIS PROCESS IS TO ENSURE THE O&O PLAN INCLUDES APPROPRIATE LOGISTICS RELATED TENTATIVE RELIABILITY, DURABILITY, SUPPORTABILITY, MANPOWER, AND COST REQUIREMENTS CONSISTENT WITH AVAILABLE CURRENT TECHNOLOGY AND THE SRO (PEACETIME AND WARTIME) HAVE BEEN ESTABLISHED BASED ON THE AVAILABLE TECHNOLOGY AND THE THREAT THAT MUST BE COUNTERED. THE O&O PLAN IS THE INITIATION DOCUMENT TO DEVELOP THE BOIP/QQPRI THIS REVIEW PROVIDES BACKGROUND INFORMATION FOR THE BOIP/QQPRI ASSESSMENT. SOURCE OF DATA: AR 702-3, AR 700-127, AR 70-1.
E14.3A2	REVIEW TRAINING DEVICES REQUIREMTS (TDR)	BOIPs ARE REQUIRED FOR MATERIEL DEVELOPED OR ITEM PROCURED IN RESPONSE TO A TRAINING DEVICE REQUIREMENT (TDR) OR ANY OTHER VALID REQUIREMENTS DOCUMENT WHICH WILL RESULT IN A NEW MATERIEL ITEM WHICH REQUIRES A NEW LIN. AND TYPE CLASSIFICATION STANDARD (LCC A). THIS PROCESS WILL REVIEW THE TDR AND END ITEM TO IDENTIFY THE BOIP REQUIREMENTS. AR 611-2, AR 71-2
E14.3A3	REVIEW NEPRS	THE NEW EQUIPMENT PERSONNEL REQUIREMENTS SUMMARY (NEPRS) PROVIDES A SINGLE SOURCE OF INFORMATION ON THE PERSONNEL, TRAINING, AND ORGANIZATIONAL IMPLICATIONS OF ALL NEW OR MODIFIED MATERIEL UNDER DEVELOPMENT. IT IS PUBLISHED ANNUALLY AND UPDATED AS REQUIRED BY AR 611-1. THIS REVIEW WILL ASSESS THE CONTENTS OF THE NEPRS TO AID IN REVIEWING THE BOIP/QQPRI EFFORT. DATA SOURCE: AR 71-2, NEW EQUIPMENT PERSONNEL REQUIREMENTS SUMMARY (NEPRS) .
E14.3A4	REVIEW LSA DATA / TASKS FROM MIL-STD 1388.1	THE PURPOSE OF THIS REVIEW IS TO GAIN THE INFORMATION RESULTING FROM EARLY LSA TASKS PERFORMED ie. TASK 203 COMPARATIVE ANALYSIS OF A BASELINE COMPARISON SYSTEM, TASK 301 FUNCTIONAL REQUIREMENTS IDENTIFICATION AND TASK 302 SUPPORT SYSTEM ALTERNATIVES. DATA SOURCE: MIL-STD 1388.1A
E14.3A5	REVIEW PQQPRI/ QQPRI	THIS REVIEW WILL ENSURE THAT THE PQQPRI WAS PREPARED AND PROVIDED CONCURRENTLY (AR 611-1) WITH THE INITIAL DA FORM 3362b-R TO TRADOC FOR USE DURING PREPARATION OF THE BOIP. IT SHOULD BE NOTED THAT UPDATES OF THE QQPRI ARE REQUIRED AS REVISED PERSONNEL IMPLICATIONS DICTATE AND WILL BE SUPPLIED TO THE COMBAT DEVELOPER CONCURRENTLY WITH DA FORM 3362b-R. DATA SOURCE: AR 71-2, AR 611-1
E14.3A6	REVIEW DAF 3362-R 3362a-R 3362b-R	CTA BOIP WILL BE PREPARED ON DA FORM 3362-R AND DA FORM 3362a-R. A DA FORM 3362b-R (BOIP FEEDER DATA) WILL ACCOMPANY ALL BOIP. DETAILED INSTRUCTIONS FOR PREPARING THESE FORMS ARE CONTAINED IN CHAPTER 3 OF AR 71-2. THE TOE/TDA/JTA/AOP BOIP WILL BE PREPARED BY AUTOMATED PROCEDURES IN THE FORMAT PRESCRIBED IN FIGURE 3-1 AND 3-2 OF AR 71-2. DATA SOURCE: AR 71-2, AR 611-1
E14.3A7	DEVELOP BOIP/QQPRI ASSESSMENT REPORT	THIS PROCESS WILL CONSOLIDATE THE FINDINGS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSMENT REPORT OF THE ADEQUACY OF THE BOIP/QQPRI PLANNING.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PM/DF
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REPORTS
MAINTENAN
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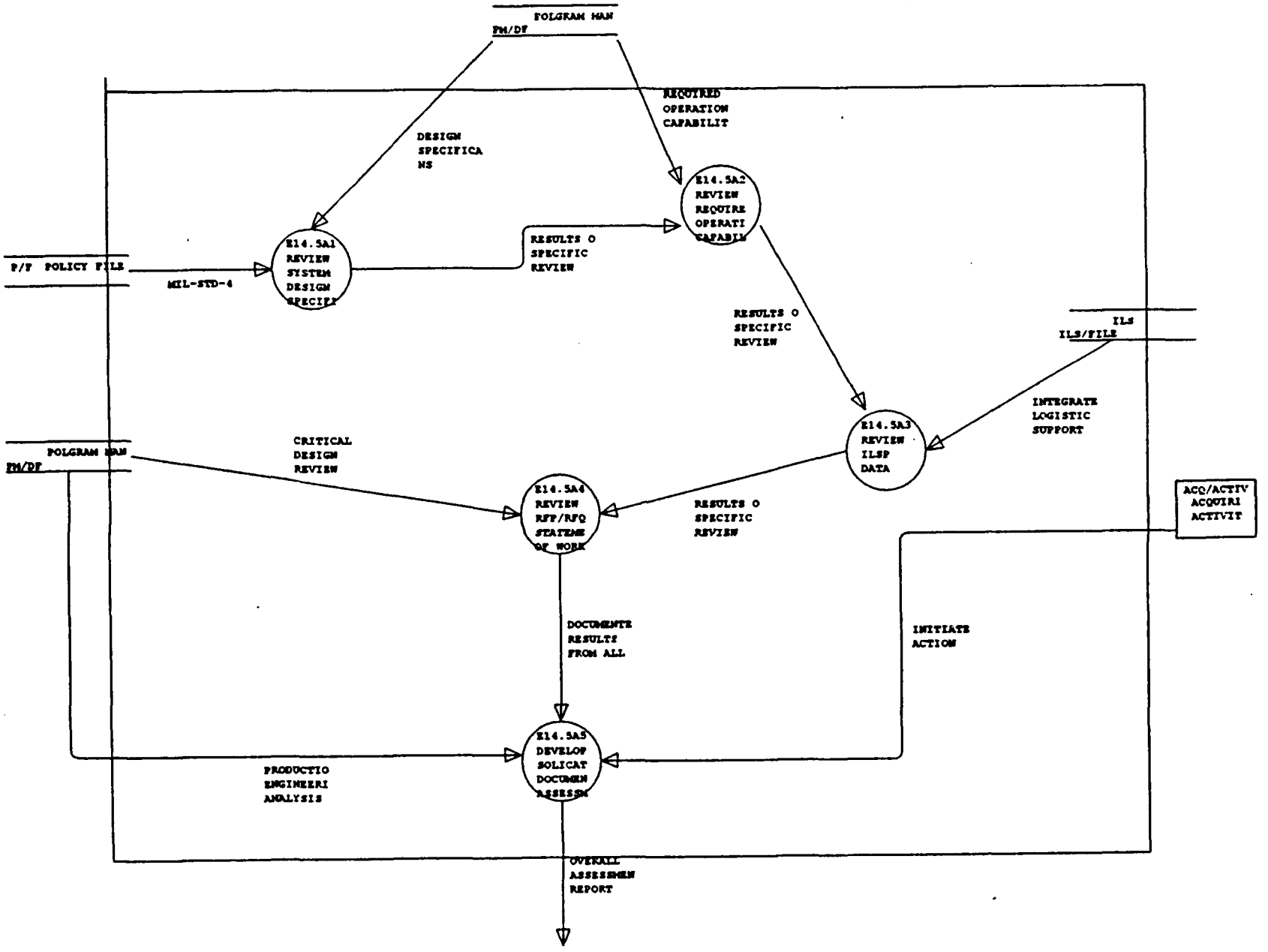
E14.4A
Created by: CERT
Revised by: CERT
Date changed: 10-MAY-89
ACQUISITION MANAGEMENT

Name	Label	Description
E14.4A1	REVIEW SYSTEM REQUIREMENTS	THE PURPOSE OF THIS PROCESS IS TO OBTAIN KNOWLEDGE OF THE SYSTEM REQUIREMENTS. THE ANALYST MUST HAVE A SOUND UNDERSTANDING OF THE REQUIREMENTS ESTABLISHED FOR THE EQUIPMENT IN ORDER TO ASSESS THE TEST PLANNING TO ENSURE THAT TESTS ARE DEVELOPED THAT WILL VERIFY THAT THE EQUIPMENT WILL OR WILL NOT MEET THESE REQUIREMENTS. DATA SOURCE AR 70-1, AR 71-9,AMCP 70-2
E14.4A2	REVIEW TT&UT TEST PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE OT/DT TEST PLAN TO INSURE ALL ILS ELEMENTS HAVE BEEN CONSIDERED AND ALL SUPPORTABILITY AND SUPPORTABILITY ISSUES HAVE BEEN IDENTIFIED AND HAVE BEEN ADDRESSED IN THE PLANS. ENSURE THOSE CRITICAL ISSUES ASSOCIATED WITH THE DEVELOPMENT OF THE SYSTEM THAT ARE OF PRIMARY IMPORTANCE TO THE DECISION AUTHORITY IN DECIDING WHETHER TO ALLOW THE SYSTEM TO CONTINUE INTO THE NEXT PHASE OF ACQUISITION ARE ADDRESSED IN THE TEST PLAN. DATA SOURCE: AR 70-10, AR 700-127
E14.4A3	REVIEW SYSTEM SUPPORT PACKAGE	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE MAINTENANCE TEST SUPPORT PACKAGE TO ENSURE THAT ALL REQUIRED DRAFT EQUIPMENT PUBLICATIONS (OPERATOR THROUGH GENERAL SUPPORT MAINTENANCE EQUIPMENT MANUALS AND "EQUIPMENT SERVICEABILITY CRITERIA" MANUALS), REPAIR PARTS, ACCESSORIES, COMMON AND SPECIAL TOOLS, TEST EQUIPMENT, CALIBRATION, AND MAINTENANCE/CALIBRATION SHOP FACILITIES, AND PERSONNEL SKILL REQUIREMENTS ARE INCLUDED AND ARE AVAILABLE TO THE TESTERS. DATA SOURCE: AR 700-127 SEC 1V PARAGRAPH 3-32.
E14.4A4	REVIEW COORDINATED TEST PROGRAM PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE CTP TO ENSURE THE PLAN INCLUDES TASKS THAT WILL VERIFY THAT THE SYSTEM AS PRODUCED CONFORMS TO THE PRE-ESTABLISHED PERFORMANCE, SAFETY, RELIABILITY, AND QUALITY REQUIREMENTS OF THE TECHNICAL DATA PACKAGE AND CONTRACT PERFORMANCE SPECIFICATIONS AND THAT THE TESTS WILL DEMONSTRATE THE MATERIELS USED, MANUFACTURING PROCESSES EMPLOYED, WORKEMANSHIP STANDARDS UTILIZED, AND THE METHODS EMPLOYED FOR THE CONTROL OF QUALITY ARE CAPABLE OF PRODUCING A SYSTEM WHICH MEETS ALL OF THE REQUIREMENTS STIPULATED IN THE PRODUCTION CONTRACT. ENSURE TESTS INCLUDE VERIFICATION OF MATERIELS, PROCESSES, DEMINSIONS, FINISH, MARKING, PACKAGING PERFORMANCE AND ENVIRONMENTAL TESTING. THE FIRST ARTICLE TESTING SHOULD PROVE WHETHER CONTRACTOR PERSONNEL HAVE CORRECTLY INTERPERTED AND COMPLETELY COMPLIED WITH THE TECHNICAL REQUIREMENTS OF THE CONTRACT AND VALIDATE THE TECHNICAL DATA PACKAGE. THE CTP COORDINATES AND INTEGRATES THE SCHEDULING OF ALL TESTS FOR THE SYSTEM/EQUIPMENT. DATA SOURCE: AR 702-9, AR 70-10, AR 702-9

Name	Label	Description
E14.4A5	REVIEW ENGINEER DESIGN TESTING PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE ENGINEERING TEST PLAN TO ENSURE EDT IS INCLUDED IN THE CTP AND IS FULLY INTEGRATED INTO THE DEVELOPMENT TEST CYCLE FOR THE APPROPRIATE PHASE OF ACQUISITION. THE EDT SHOULD INCLUDE TASKS THAT WILL: 1. DETERMINE IF CRITICAL SYSTEM TECHNICAL CHARACTERISTICS ARE ACHIEVABLE. 2. ELIMINATE AS MANY TECHNICAL AND DESIGN RISKS AS POSSIBLE OR TO DETERMINE THE EXTENT TO WHICH THEY ARE MANAGEABLE. 3. PROVIDE DATA FOR REFINING AND MAKING THE HARDWARE MORE RUGGED SO THAT IT WILL MEET TECHNICAL SYSTEM CHARACTERISTICS REQUIREMENTS. 4. PROVIDE INFORMATION IN SUPPORT OF DEVELOPMENT EFFORTS. 5. INSURE THAT COMPONENTS, SUBSYSTEMS AND SYSTEMS ARE ADEQUATELY DEVELOPED BEFORE BEGINNING OPERATIONAL TESTING. DATA SOURCE: AR 70-10
E14.4A6	REVIEW PRVT PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE PRODUCTION RELIABILITY VERIFICATION TEST PLAN TO INSURE THAT SYSTEMS AND SUBSYSTEMS THAT OPERATE ON A CONTINUOUS TIME BASIS THAT HAVE RELIABILITY REQUIREMENTS ESTABLISHED ARE PLANNED TO BE TESTED IN ACCORDANCE WITH MIL-STD-781 TO DETERMINE IF THE ITEM HAS A SATISFACTORY MTBF. THE TESTS SHOULD REQUIRE THAT A NUMBER OF THE ITEMS BE OPERATED FOR EXTENDED PERIODS OF TIME UNDER CONDITIONS REPRESENTING THE OPERATIONAL ENVIRONMENT AND MISSION PROFILE IN ORDER TO ACCEPT, WITH A SPECIFIED CONFIDENCE LEVEL, THAT THE RELIABILITY MEETS OR EXCEEDS THE ESTABLISHED RELIABILITY REQUIREMENTS. DATA SOURCE: MIL-STD-781, AR 702-3, DARCOM-R 702-24, DODD 5000.40
E14.4A7	REVIEW LOGISTIC DEMOSTRATI ON PLAN	THE PURPOSE OF THIS PROCESSS IS TO REVIEW THE LOGISTIC DEMONSTRATION PLAN TO ENSURE THE PLAN PROVIDES FOR VERIFICATION THAT THE MAINTAINABILITY GOALS CAN BE ATTAINED AND VERIFY THE ADEQUACY OF THE SSP. AS A MINIMUM THE LD SHOULD: 1. PROVIDE DATA TO EVALUATE THE DESIGN OF MATERIEL WITH RESPECT TO QUALITATIVE MAINTAINABILITY ASPECTS, FOR EXAMPLE, ACCESSABILITY, EASE OF MAINTENANCE, MODULARIZATION, INCOROPERATION OF TEST POINTS, HUMAN FACTORS, SAFETY, AND THE ELIMINATION OF UNNECESSORY PREVENTATIVE MAINTENANCE CHECKS AND TASKS. 2. PERFORM ALL TASKS AT THE OPERATOR/CREW AND ORGANIZATIONAL LEVELS OF MAINTENANCE AND A SERIES OF SELECTED TASKS AT THE DS/GS LEVELS. 3. INVESTIGATE PERSONNEL SKILL LEVEL REQUIREMENTS, ADEQUACY OF TRAINING PROGRAMS AND TRAINING MATERIELS, AND THE ADEQUACY OF TASK DISCRIPTIONS AND ILLUSTRATIONS IN DRAFT MANUALS FOR THE EQUIPMENT. 4. INVESTIGATE THE SELECTION AND ALLOCATION OF REPAIR PARTS, ADEQUACY AND SUITABILITY OF TOOLS, TMDE AND SUPPORT EQUIPMENT, ALLOCATION OF TASKS TO APPROPRIATE MAINTENANCE LEVELS BASED ON PERSONNEL SKILLS AND MAINTENANCE CAPABILITY, AND THE ADEQUACY OF MAINTENANCE TIME STANDARDS INCLUDED IN THE MAINTENANCE ALLOCATION CHARTS. 5. INVESTIGATE FAULT DIAGNOSIS PROCEDURES AND TESTABILITY USING BUILT-IN TEST EQUIPMENT, AUTOMATIC TEST EQUIPMENT AND SOFTWARE PROGRAMS, AND EXTERNAL TMDE. DATA SOURCE: AR 700-127, AR 750-1, AMC-R 700-15, DA-PAN 700-50

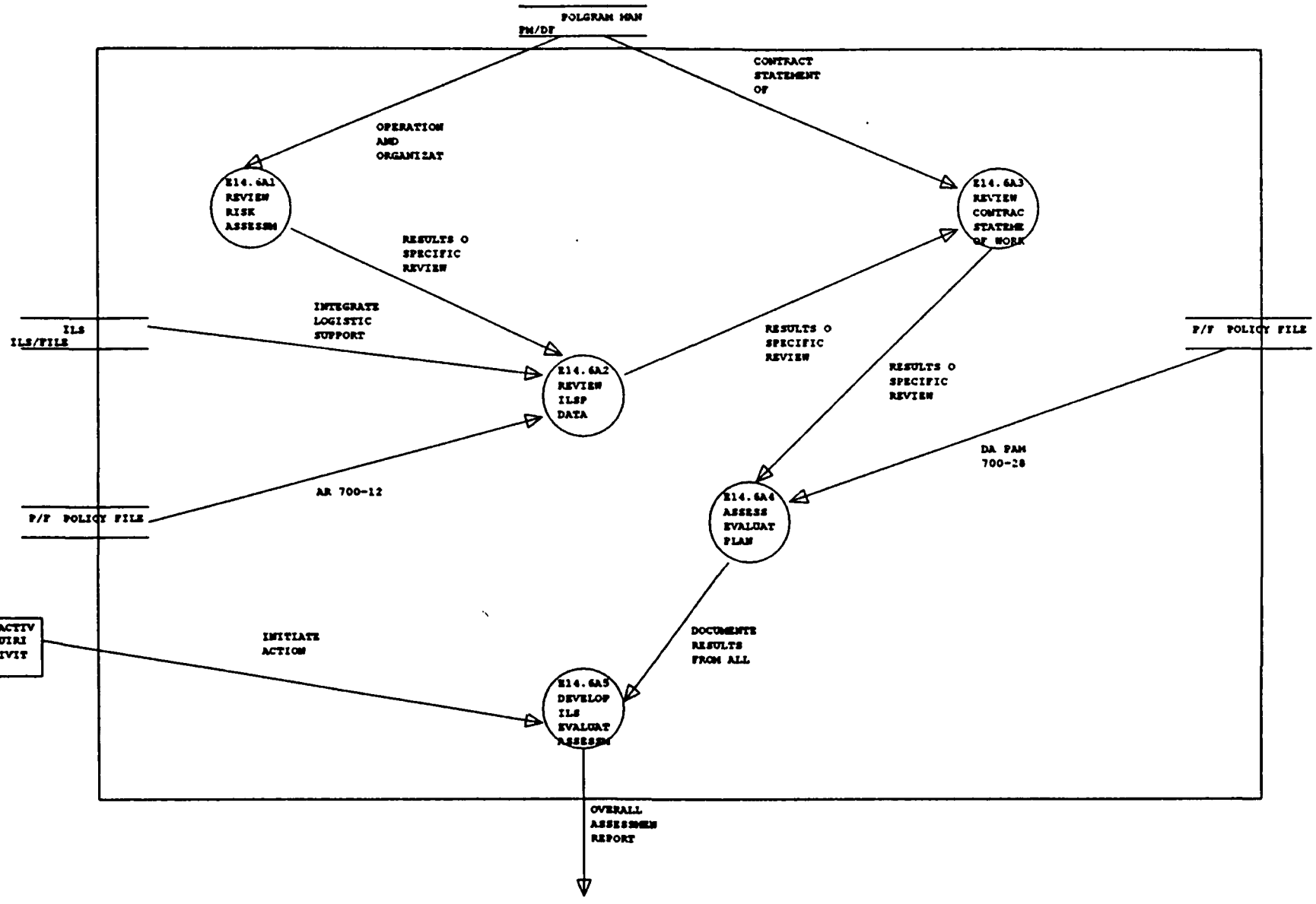
Name	Label	Description
E14.4A8	DEVELOP TEST PLANNING ASSESSMENT REPORT	THE PURPOSE OF THIS PROCESS IS TO CONSOLIDATE THE FINDINGS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSMENT REPORT OF THE ADEQUACY OF THE TEST PLANNING TO ENSURE ALL ILS ISSUES ARE COVERED IN THE TASKS REQUIREMENT AND THAT THE TESTS ARE SUCH THAT THEY WILL VERIFY THAT THE SYSTEM CAN BE OPERATED AND MAINTAINED IN ITS INTENDED ENVIRONMENT USING THE CURRENTLY DEVELOPED SUPPORT SYSTEM AND MANPOWER DEVELOPED UNDER THE MANPRINT PROCESS.



ACQUISITION MANAGEMENT

E14.5A
Created by: CERT
Revised by: CERT
Date changed: 03-MAY-89

Name	Label	Description
E14.5A1	REVIEW SYSTEM DESIGN SPECIFICATIONS	THE PURPOSE OF THIS PROCESS IS TO ENSURE THE SYSTEM SPECIFICATIONS MEET THE REQUIREMENTS OF MIL-STD 490, AND PROVIDES DETAIL PERFORMANCE REQUIREMENTS AND QUALITY ASSURANCE PROVISIONS NECESSARY FOR INCLUSION IN THE SOLICITATION DOCUMENTS. DATA SOURCE; AR 700-127, MIL-STD 490.
E14.5A2	REVIEW REQUIRED OPERATION CAPABILITY (ROC)	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE ROC TO ENSURE THE REQUIRED OPERATIONAL CAPABILITY IS CONSISTANT WITH THE O&O PLAN, SRO, ARMY DOCTRINE, ORGANIZATION, FORCE STRUCTURE, CURRENT TECHNOLOGY, AND SAFETY CONSIDERATIONS AND THAT THE ROC HAS BEEN PREPARED, COORDINATED, AND APPROVED IN ACCORDANCE WITH AR 71-9, TO INCLUDE APPROPRIATE LOGISTIC PROVISIONS AND RAM RATIONAL ANNEX. DATA SOURCE: AR 71-9
E14.5A3	REVIEW ILSP DATA	THE PURPOSE OF THIS REVIEW IS TO GAIN INSIGHT OF THE MAINTENANCE PLAN, MAINTENANCE ENGINEERING ANALYSIS AND EVALUATION OF THE END ITEM OR SYSTEM TO BE SUPPORTED, THE MAINTENANCE ALLOCATION CHART, AND TO REVIEW THE RELEASED PARTS DRAWINGS, DISCRIPTIONS, ASSEMBLY, GENERAL ARRANGEMENTS AND DIAGRAMS SUFFICIENT TO INDICATE THE PHYSICAL CHARACTERISTICS OF THE PARTS IN THE EQUIPMENT AND THE LOCATION AND FUNCTION OF EACH PART. REVIEW THE SYSTEM RELIABILITY AND MAINTAINABILITY DATA. REVIEW COSTS ASSOCIATED WITH IN-HOUSE AND CONTRACTOR MANUFACTURING AND REPAIR ALTERNATIVES. REVIEW THE SUPPLY AND CONSUMPTION DATA AVAILABLE ON THE SYSTEM DURING TESTS AND POST DEPLOYMENT. DATA SOURCE: AR 700-127, AR 700-126, SYSTEM ILSP.
E14.5A4	REVIEW RFP/RFQ/ STATEMENT OF WORK CONTRACT	THE PURPOSE OF THIS PROCESS IS TO REVIEW RFP, RFQ, AND THE CONTRACT STATEMENT OF WORK TO ENSURE ALL WORK STATEMENTS ARE CLEARLY DEFINED AND ALL ILS ISSUES HAVE BEEN SUFFICIENTLY ADDRESSED. DATA SOURCE: AR 700-127,
E14.5A5	DEVELOP SOLICATION DOCUMENTS ASSESSMENT REPORT	THE PURPOSE OF THIS PROCESS IS TO CONSOLIDATE THE FINDINGS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSMENT REPORT OF THE ADEQUACY OF THE SOLICITATION DOCUMENTS AND TO ENSURE SUPPORTABILITY AND OTHER ILS ISSUES HAVE BEEN GIVEN APPROPRIATE WEIGHTING FACTORS WHEN THE DOCUMENTS WERE PREPARED. DATA SOURCE; AR 700-127



ACQUISITION MANAGEMENT

E14.6A
Created by: CERT
Revised by: CERT
Date changed: 03-MAY-89

Name	Label	Description
E14.6A1	REVIEW RISK ASSESSMENT	THE PURPOSE OF THIS PROCESS IS TO ENSURE ALL RISKS HAVE BEEN IDENTIFIED CONCERNING THE TECHONOLOGY BASE, SCHEDULE, DESIGN , MANPOWER AVAILABILITY, TRAINING REQUIREMENTS, AND ALL SUPPORTABILITY AND SUPPORTABILITY RELATED ISSUES. AND THAT ACCEPTABLE SOLUTIONS HAVE BEEN DEVELOPED TO REDUCE THE RISKS TO AN ACCEPTABLE LEVEL. AR 70-1, AR 700-127, DA PAM 700-55, MIL-STD-1388.1A.
E14.6A2	REVIEW ILSP DATA	THE PURPOSE OF THIS REVIEW IS TO GAIN INSIGHT OF THE MAINTENANCE PLAN, MAINTENANCE ENGINEERING ANALYSIS AND EVALUATION OF THE END ITEM OR SYSTEM TO BE SUPPORTED, THE MAINTENANCE ALLOCATION CHART, AND TO REVIEW THE RELEASED PARTS DRAWINGS, DISCRIPTIONS, ASSEMBLY, GENERAL ARRANGEMENTS AND DIAGRAMS SUFFICIENT TO INDICATE THE PHYSICAL CHARACTERISTICS OF THE PARTS IN THE EQUIPMENT AND THE LOCATION AND FUNCTION OF EACH PART. REVIEW THE SYSTEM RELIABILITY AND MAINTAINABILITY DATA. REVIEW COSTS ASSOCIATED WITH IN-HOUSE AND CONTRACTOR MANUFACTURING AND REPAIR ALTERNATIVES. REVIEW THE SUPPLY AND CONSUMPTION DATA AVAILABLE ON THE SYSTEM DURING TESTS AND POST DEPLOYMENT. DATA SOURCE: AR 700-127 AR 700-126 SYSTEM ILSP.
E14.6A3	REVIEW CONTRACT STATEMENT OF WORK	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE CONTRACT STATEMENT OF WORK TO ENSURE ALL ILS ISSUES HAVE BEEN INCLUDED, AND THAT REQUIREMENTS FOR THE CONTRACTOR TO DEVELOP AN INTEGRATED SUPPORT PLAN TAILORED TO THE TYPE ACQUISITION AND CONSISTANT WITH THE LOGISTIC SUPPORT STRATEGY AND MIL-STD-1388.1A TASKS REQUIREMENTS ARE LINE ITEMS OF THE STATEMENT OF WORK. DATA SOURCE AR 700-127, DA PAM 700-55, MIL-STD 1369A AND MIL-STD-1388.1A.
E14.6A4	ASSESS ILS EVALUATION PLAN	THE PURPOSE OF THIS PROCESS IS TO REVIEW THE ILS EVALUATION PLANNING TO ENSURE ALL SUPPORTABILITY AND SUPPORTABILITY ISSUES ARE ANALIZED AND ASSESSED DURING EACH PHASE OF THE ACQUISITION AND EACH TIME THERE IS A MAJOR CHANGE IN THE PROGRAM THAT COULD IMPACT THE ILS PLANNING. DATA SOURCE: AR 700-127
E14.6A5	DEVELOP ILS EVALUATION ASSESSMENT REPORT	THE PURPOSE OF THIS PROCESS IS TO CONSOLIDATE THE FINDINGS AND RESULTS OF THE OTHER PROCESSES ON THIS DATA FLOW DIAGRAM AND DEVELOP AN OVERALL ASSESSMENT REPORT AS TO THE ADEQUACY OF THE ILS EVALUATION PROCEDURES AND TO ENSURE THE PROVISIONS MADE FOR EVALUATIONS WILL ENSURE THE ILS PROGRAM WILL SUPPORT THE EQUIPMENT WHEN FIELDED. DATA SOURCE; AR 700-127

ANNEX C

STRUCTURED SYSTEMS ANALYSIS

Fundamentals

ANNEX C
STRUCTURED SYSTEMS ANALYSIS

Fundamentals

Structured Systems Analysis (SSA) has recently become an industry standard for generating Data Flow Diagrams (replacing "logic diagrams" or "flow charts") to aid in coordinating the functions to be performed by a computer program and its associated Inputs/Outputs (I/O). During the SSA, each set of "flow charts" can be checked by the potential user to assure that there is complete agreement on what is to be done by the program, and how it is to be accomplished. It also provides considerable flexibility for updating or changing the program.

Six basic elements are used in SSA:

1. Process (PRC)
2. Data Flow (DAF)
3. Data Store (DAS)
4. External Entity (EXT)
5. Data Flow Diagram (DFD)
6. Data Dictionary (DCT)

PROCESS (Represented by a Circle):

A function or operation to be performed which can be explained by a set of instructions representing a single task, e.g., "calculate interest on a loan", "prepare a draft report". If the Process description is too complex to describe in a few steps, it may be necessary to develop a lower level description (see below).

DATA FLOW (Lines interconnecting Processes or I/Os):

Each function or Process cannot be a stand-alone in a complex network. To have any meaning in a program, each process must be initiated by a previous action and/or provided information on which to act. Furthermore, a Process must result in an output which is the input to the next logical Process. These inputs, outputs, or initiating actions are identified as Data Flows, and are represented by the Data Flow lines indicating its point of origin and the process to which it provides data.

DATA STORE (Represented by two parallel lines):

Although some Processes generate data used as input to a succeeding Process, there is often a need to "gather or collect" information from files in which it is stored. This information may come from an external source (such as a MIL-STD, Army regulation, historical experience files, etc.), or an internal source or file in which data is temporarily stored for use by succeeding processes. These Data Stores can be visualized as a "file cabinet", in which the data are stored for later retrieval).

EXTERNAL ENTITY (Represented by a Rectangle):

Each program or logical process must have an initiating action, a "point" of disposition of the results, and possibly input guidance or instructions. Each of these have authorities, functions, or applications which are independent of the program Process (although required by the program Process). Thus, these activities, agencies, or facilities are considered "External Entities" to the program.

DATA FLOW DIAGRAM:

The general arrangement of the above can be readily seen. First, the circle or Process describes what has to be done; the interconnecting lines represent the Data Flows, together with the specific description of all I/Os. The Data Stores identify the source and/or file designation of a data base, and the External Entities represent those activities remote from the Process, which are the source of guidance or the recipients of the program. This combination of Processes, Data Flows, Data Stores, and External Entities constitutes a "Data Flow Diagram". The unique feature of the Data Flow Diagram (DFD) is that each process can be considered independently, permitting a change to be made in one Process without a major change in the overall program.

DATA DICTIONARY:

The Data Dictionary consists of a complete description of each of the basic elements. For the Process, it contains a step-by-step description of what has to be performed. The description of the Data Flow identifies the nomenclature of the data, a detailed description of its content, and its source. The Data Stores and External Entities are described, including possible location.

The Data Dictionary (a living document) begins with a description of the first Process and is continually built-up as the Data Flow Diagrams are expanded, detailed, and eventually completed.

APPROACH TO PERFORMING STRUCTURED SYSTEM ANALYSIS:

The best approach to Structured Systems Analysis is to assume that the program consists of a series of processes, each of which are to be assigned to an inexperienced analyst. Each analyst is to be walked through the assigned process of the Program, explaining step-by-step what functions have to be performed or what actions have to be taken to accomplish the process. The analyst is also informed where the information is coming from (input Data Flow), what is to be generated by each process (output Data Flow), where the data base may to be found (Data Stores), and who to contact for guidance (External Entities).

The best way to initiate a SSA is to set down the point of origin of a program, its final goal(s), and the intermediate functions or actions needed to get from beginning to goal. Each step should be considered as a Process - some may be sequential and others parallel. Then, the steps needed to accomplish the Process should be described. If the description is complex and needs intermediate steps, the Process is then a candidate for an "explosion". That is, the top (or upper) level Process is considered as a "project" and its own Data Flow Diagram is prepared.

When writing the step-by-step procedures in the Process, certain elements of data (or information) must be made available for the procedure. Each element of data is considered as an input Data Flow, which is identified and described. The product (or result) of a Process is an output Data Flow element.

Each Data Flow to the Process must originate from:

1. an earlier Process
2. a Data Store (or file)
3. an External Entity.

These sources are also identified, described and put into the Data Dictionary. As soon as the last portion of the Data Flow Diagram has been described, the SSA is complete.